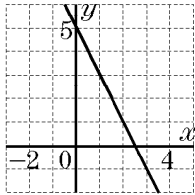


Calculus

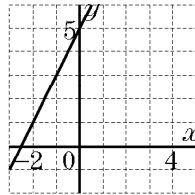
4.6 - Extra Practice II

1. Which of the following is the graph of the equation $2x - y = -5$.

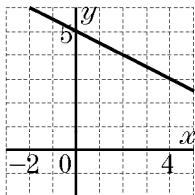
a)



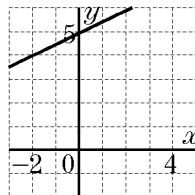
b)



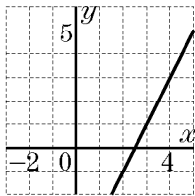
c)



d)

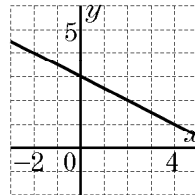


e)

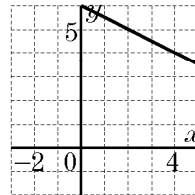


2. Which of the following is the graph of the equation $x + 2y = 6$.

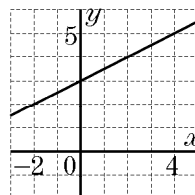
a)



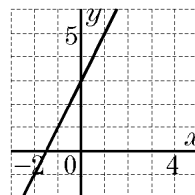
b)



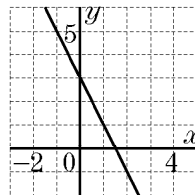
c)



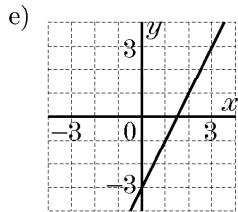
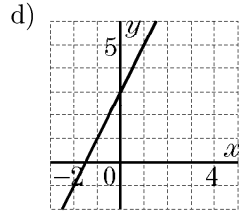
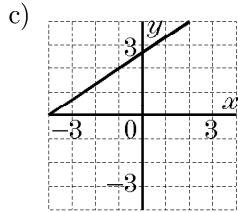
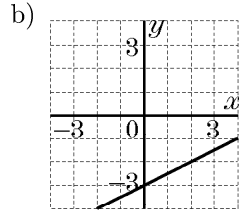
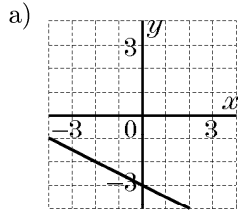
d)



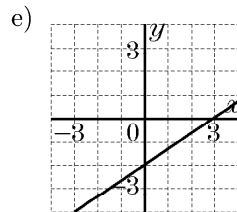
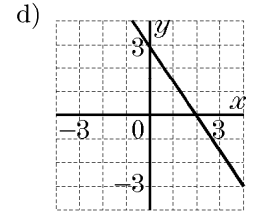
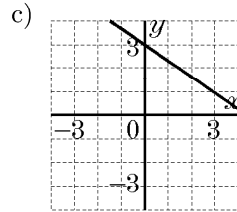
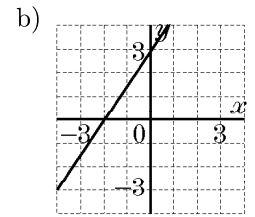
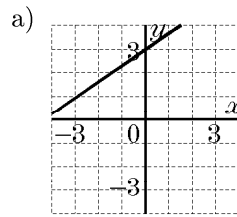
e)



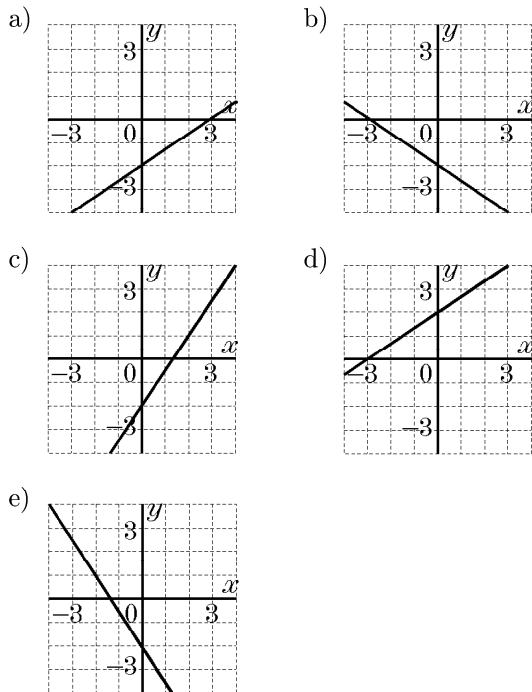
3. Which of the following is the graph of the equation $2x - y = -3$.



4. Which of the following is the graph of the equation $2x + 3y = 9$.



5. Which of the following is the graph of the equation $2x - 3y = 6$.



6. Andrew travels by car at constant speed from Vancouver to Penticton. The distance d kilometres from Penticton after t hours of driving is given by the formula $d = 400 - 80t$. After 3 h, how far is Andrew from Penticton?

- a) 160 km b) 180 km c) 240 km
 d) 260 km e) 320 km

7. What is the y -intercept of the line represented by $y = 2x + 3$?

- a) -3 b) -2 c) 0 d) 2 e) 3

8. What is the y -intercept of the line represented by $3y = 2x + 6$?

- a) -6 b) -3 c) -2 d) 0 e) 2

9. State the slope and the y -intercept for the line represented by $y = -3x + 2$.

- a) $2; 3$ b) $-2; 3$ c) $-3; -2$
 d) $2; -3$ e) $-3; 2$

10. State the slope and the y -intercept for the line represented by $2x + 3y = 6$.

- a) $\frac{2}{3}, 2$ b) $-\frac{2}{3}, 2$ c) $-\frac{3}{2}, 2$
 d) $-\frac{2}{3}, 6$ e) $-\frac{2}{3}, -2$

11. State the slope and the y -intercept for the line represented by $2x + 5y = -20$.

- a) $-\frac{2}{5}, -4$ b) $-\frac{2}{5}, 4$ c) $-\frac{5}{2}, -4$
 d) $\frac{2}{5}, -4$ e) $\frac{2}{5}, 4$

12. What is the equation for the line with slope $m = -4$ and y -intercept $b = 3$?

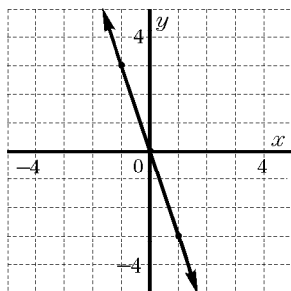
- a) $y = -4x + 3$ b) $y = 4x - 3$
 c) $y = -4x - 3 = 0$ d) $y = -3x + 4$
 e) $y = 3x - 4$

13. What is the equation for the line with slope $m = -5$ and y -intercept $b = 4$?

- a) $y = -4x + 5$ b) $y = -5x + 4$
 c) $y = -5x - 4$ d) $y = 5x + 4$
 e) $y = 4x - 5$

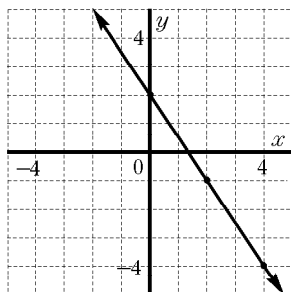
14. What is the equation for the line shown?

- a) $y = \frac{1}{3}x$
 b) $y = -3x + 1$
 c) $y = -3x$
 d) $y = -\frac{1}{3}x + 1$
 e) $y = \frac{1}{3}x - 1$



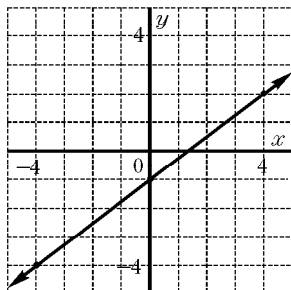
15. What is the equation for the line shown?

- a) $y = \frac{2}{3}x + 2$
 b) $y = -\frac{3}{2}x + 2$
 c) $y = \frac{3}{2}x + 2$
 d) $y = -\frac{2}{3}x + 2$
 e) $y = \frac{3}{2}x - 2$



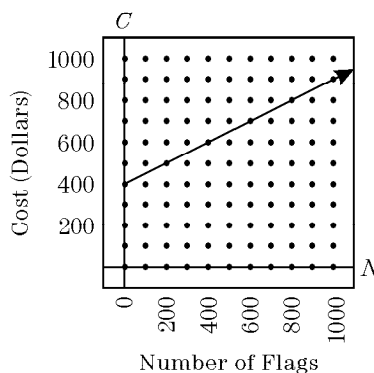
16. What is the equation for the line shown?

- a) $y = \frac{4}{3}x - 1$
 b) $y = -\frac{4}{3}x + 1$
 c) $y = -\frac{4}{3}x - 1$
 d) $y = -\frac{3}{4}x - 1$
 e) $y = \frac{3}{4}x - 1$



17. The cost to manufacture flags involves an initial fixed cost for setup plus a charge for each flag produced. This graph shows the cost (C) for producing various numbers (N) of flags.

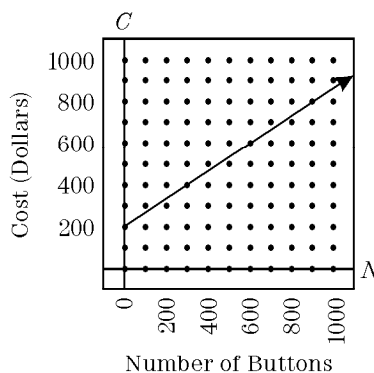
How many flags can be produced for \$600?



- a) 300 b) 400 c) 450 d) 567 e) 700

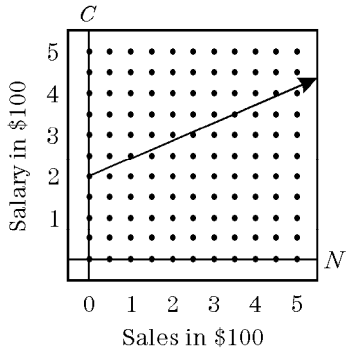
18. The cost to manufacture brass buttons involves an initial fixed cost for setup plus a charge for each button produced. This graph shows the cost (C) for producing various numbers (N) of buttons.

How many buttons can be produced for \$400?



- a) 250 b) 268 c) 300 d) 450 e) 467

19. From the graph shown, which is the salary when the sales are \$350?



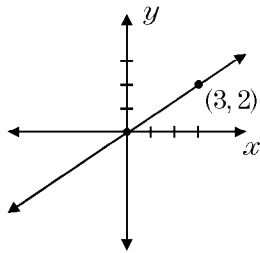
- a) \$250 b) \$300 c) \$350
 d) \$400 e) \$450

20. From the graph shown in the previous problem, which is the salary when the sales are \$450?

- a) \$250 b) \$300 c) \$350
 d) \$400 e) \$450

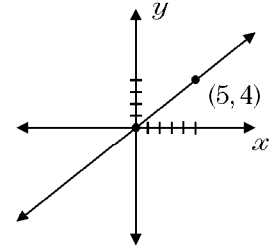
21. What is the slope of the line?

- a) $\frac{1}{4}$ b) $\frac{1}{2}$ c) $\frac{2}{3}$
 d) $\frac{1}{2}$ e) 2

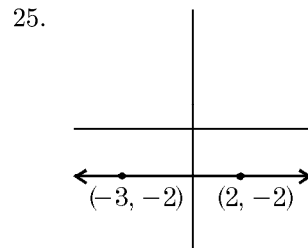
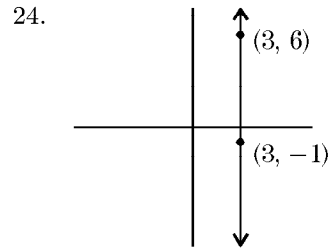
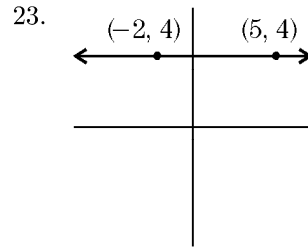


22. What is the slope of the line?

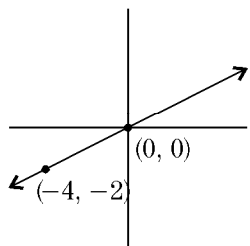
- a) $\frac{1}{5}$ b) $\frac{1}{4}$ c) $\frac{4}{5}$
 d) $\frac{5}{4}$ e) 1



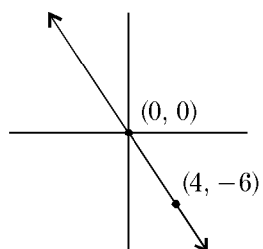
Write the equation of the line or half-plane.



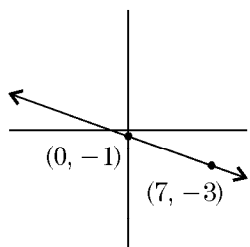
26.



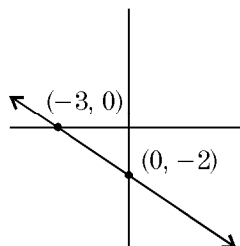
27.



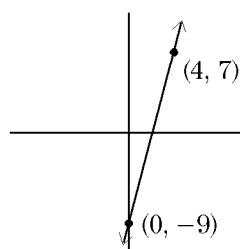
28.



29.



30.



1.
Answer: b
CodePath: EAS.AW1.D.A.1
2.
Answer: a
CodePath: EAS.AW1.D.A.3
3.
Answer: d
CodePath: EAS.AW1.D.A.4
4.
Answer: c
CodePath: EAS.AW1.D.A.5
5.
Answer: a
CodePath: EAS.AW1.D.A.8
6.
Answer: a
CodePath: EAS.AW1.D.A.13
7.
Answer: e
CodePath: EAS.AW1.D.C.1
8.
Answer: e
CodePath: EAS.AW1.D.C.3
9.
Answer: e
CodePath: EAS.AW1.D.C.9
10.
Answer: b
CodePath: EAS.AW1.D.C.17
11.
Answer: a
CodePath: EAS.AW1.D.C.18
12.
Answer: a
CodePath: EAS.AW1.D.C.21
13.
Answer: b
CodePath: EAS.AW1.D.C.22
14.
Answer: c
CodePath: EAS.AW1.D.C.29

15.
Answer: b
CodePath: EAS.AW1.D.C.30
16.
Answer: e
CodePath: EAS.AW1.D.C.31
17.
Answer: b
CodePath: EAS.CM1.D.A.21
18.
Answer: c
CodePath: EAS.CM1.D.A.22
19.
Answer: c
CodePath: EAS.CM1.D.A.27
20.
Answer: d
CodePath: EAS.CM1.D.A.28
21.
Answer: c
CodePath: EAS.MMA.P.E.1
22.
Answer: c
CodePath: EAS.MMA.P.E.2
23.
Answer: $y = 4$
CodePath: EAS.TRI.E.E.1
24.
Answer: $x = 3$
CodePath: EAS.TRI.E.E.2
25.
Answer: $y = -2$
CodePath: EAS.TRI.E.E.3
26.
Answer: $y = \frac{1}{2}x$
CodePath: EAS.TRI.E.E.5
27.
Answer: $y = -\frac{3}{2}x$
CodePath: EAS.TRI.E.E.6

28.

Answer: $y = -\frac{2}{7}x - 1$

CodePath: EAS.TRI.E.E.10

29.

Answer: $y = \frac{-2}{3}x - 2$

CodePath: EAS.TRI.E.E.13

30.

Answer: $y = 4x - 9$

CodePath: EAS.TRI.E.E.19