

25.) If $h(y) = \frac{4 - y^2}{3 - y}$, which of the following is not defined?

- a) $h(0)$
- b) $h(3)$
- c) $h(-3)$
- d) $h(2)$
- e) $h(-2)$

26.) $\frac{2^{-2} + 3^{-2}}{2^{-1} + 3^{-1}} =$

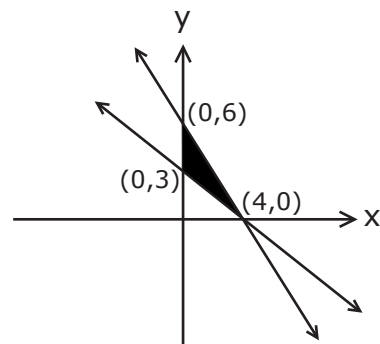
- a) $\frac{13}{30}$
- b) $\frac{5}{6}$
- c) $\frac{6}{5}$
- d) $\frac{13}{5}$
- e) $\frac{1}{5}$

27.) One factor of $4x^2 - 8x + 4$ is

- a) $2x + 2$
- b) $x - 2$
- c) $x + 4$
- d) $x - 1$
- e) $x + 1$

28.) Find the area of the shaded region between the lines.

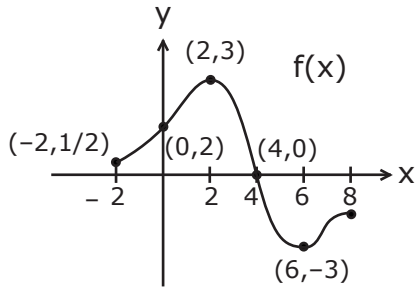
- a) 4
- b) 6
- c) 8
- d) 10
- e) 12



29.) The slope of the line with the equation $y = -7x + 3$ is

- a) 3
- b) 7
- c) $-\frac{1}{7}$
- d) $-\frac{3}{7}$
- e) -7

- 30.) The function $f(x)$ is graphed over the interval from $x = -2$ to $x = 8$. Which statement is true about $f(x)$ over the given interval?

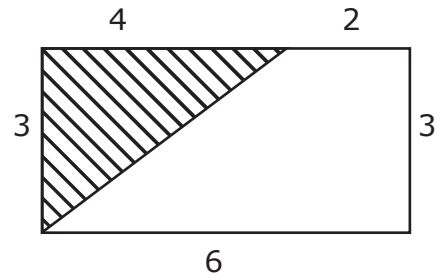


- a) The largest value of the function is 8.
- b) The maximum value of $f(x)$ is $\frac{1}{2}$.
- c) The solution to $f(x) = 0$ is 2.
- d) $f(x) = 0$ when $x = 4$.
- e) None of these
- 31.) 9 square yards is
- a) 1 square foot d) 81 square foot
- b) 3 square foot e) 243 square foot
- c) 27 square foot

- 32.) One factor of $3x^2 + 6x + 3$ is

- a) $3x + 1$ d) $3x - 1$
- b) $x + 1$ e) $x - 1$
- c) $x + 3$

- 33.) What fraction of the rectangle's area is shaded?



- a) $\frac{1}{5}$ d) $\frac{2}{5}$
- b) $\frac{1}{4}$ e) $\frac{2}{3}$
- c) $\frac{1}{3}$
- 34.) Solve for x : $ax - 3 = x + d$
- a) $x = \frac{d + 3}{a - 1}$ d) $x = \frac{d + 3}{a}$
- b) $x = \frac{a - 1}{d - 3}$ e) $x = \frac{d - 3}{a - 1}$
- c) $x = \frac{d - 3}{a}$
- 35.) The amount of bacteria doubles every day. If there are 320 bacteria on day 6, when will there be 5,120 bacteria?
- a) day 8 d) day 14
- b) day 10 e) day 16
- c) day 12