

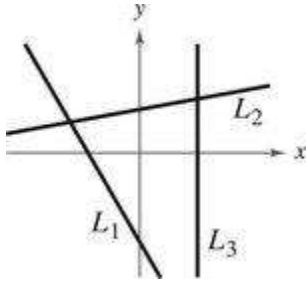
Quiz Review for Sections 1.1 – 1.4

1. Identify the line that has the indicated slope.

a) $m = \frac{2}{3}$

b) m is undefined.

c) $m = -2$

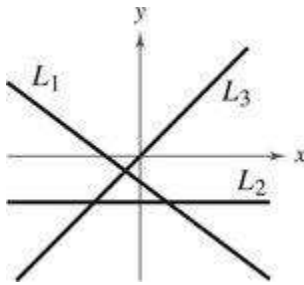


2. Identify the line that has the indicated slope.

a) $m = 0$

b) $m = -\frac{3}{4}$

c) $m = 1$



3. Find the slope of the line through $(-6, -1)$ and $(-6, 4)$.

4. Write the equation of the line that passes through $(5, -1)$ and $(-5, 5)$.

5. Write the equation of the line that passes through $(2, 1)$ and is

a) parallel to $4x - 2y = 3$.

b) perpendicular to $4x - 2y = 3$.

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6. Evaluate the function at the specified value of the independent variable and simplify:

$$a(x) = \frac{1}{x^2-9} \quad \text{Find } a(y+3).$$

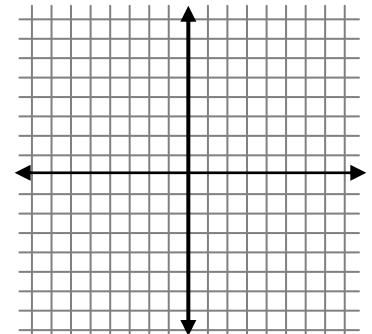
7. Evaluate the function at the specified value of the independent variable and simplify:

$$f(x) = \begin{cases} x+2, & x < 0 \\ 4, & 0 \leq x < 2 \\ x^2, & x \geq 2 \end{cases} \quad \text{Find } f(4).$$

8. Find all values of x such that $f(x) = 0$: $f(x) = \frac{3x-4}{5}$

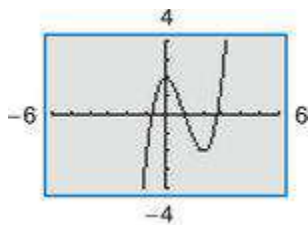
9. Find the domain of the function: $f(x) = \frac{3}{x+2}$

10. Sketch the graph of the function: $f(x) = |x+3| - 2$



11. Given $f(x) = x^2 - x + 1$, find the difference quotient $\frac{f(x+h)-f(x)}{h}$

12. Tell where the function is decreasing:



Quiz Review for Sections 1.1 – 1.4

13. Graph the piecewise $f(x) = \begin{cases} 2x + 1, & x > 2 \\ 4, & x \leq 2 \end{cases}$

