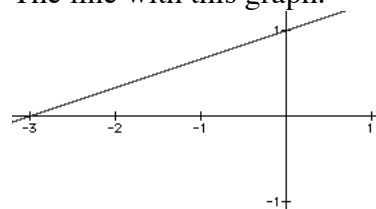


Write an equation for each line. Write in slope-intercept form: $y = mx + b$.

1. Through $(1, -4)$; $m = 3$

2. The line with this graph.



Write the rational expression in lowest terms.

3.
$$\frac{x^2 + 2x - 15}{x^2 + 6x + 5}$$

Multiply.

4.
$$(x + 3)(x^2 + 6x + 9)$$

Solve.

5.
$$x^2 - 10x + 21 = 0$$

Rewrite using only positive exponents and simplify.

6.
$$\frac{(a^{-3}b^2)^2}{(2a^{-4}b^{-3})^{-1}}$$

Subtract. Write the answer in lowest terms.

7.
$$\frac{x}{x-2} - \frac{8}{x^2-4}$$

Factor completely.

8.
$$10x^2 - 17x + 3$$