

**Simplify each expression.**

1)  $\frac{6m - n}{30m} - \frac{m - 6n}{30m}$

2)  $\frac{u - 6v}{10u^2} - \frac{4u + 3v}{10u^2}$

3)  $\frac{u - 5v}{6u^2} - \frac{5u + 2v}{6u^2}$

4)  $\frac{x + 3y}{6} + \frac{5x}{3x}$

5)  $\frac{3}{2p - 5} - \frac{5}{2p}$

6)  $\frac{a - 4}{a - 2} - \frac{2}{a + 2}$

7)  $\frac{3x}{2x + 5} - \frac{6}{2(x - 2)}$

8)  $\frac{3}{5n + 6} + \frac{3}{n + 3}$

9)  $\frac{6x}{3x} - \frac{6x}{3x^2 + 18x}$

10)  $\frac{2a}{a - 3} - \frac{2}{a + 5}$

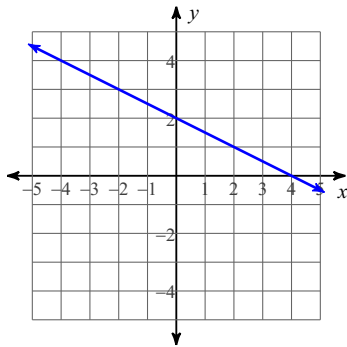
**Simplify each and state the excluded values.**

11)  $\frac{3n^3 + 33n^2 + 90n}{3n^2 - 12n - 180}$

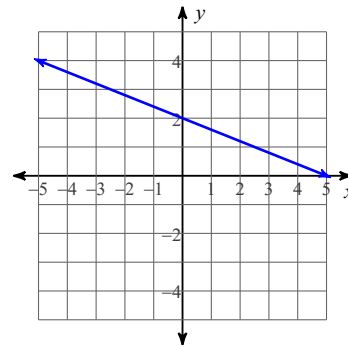
12)  $\frac{m^2 + 12m + 27}{2m^2 + 4m - 126}$

**Write the slope-intercept form of the equation of each line.**

13)



14)



**Write the slope-intercept form of the equation of the line through the given points.**

15) through:  $(-3, -4)$  and  $(-1, -1)$

16) through:  $(-1, 5)$  and  $(3, -2)$

**Simplify.**

17)  $\sqrt{10}(\sqrt{2} + \sqrt{3})$

18)  $-\sqrt{10}(3\sqrt{5} + 5)$

19)  $\sqrt{150xy^2z^3}$

20)  $\sqrt{63m^4n^2p}$