

**A21****Multiply and simplify:**

1.  $-5x(3x^2 - 7x + 9)$

2.  $3x^2(2x^2 - 4x - 7)$

3.  $(4x + 7)(x + 5)$

4.  $(8x - 3)(x + 4)$

5.  $(5x + 4)(3x - 2)$

6.  $(2x - 1)(6x - 7)$

7.  $(7x^2 - 3)(5x^2 - 9)$

8.  $(5x - 3)(5x + 3)$

9.  $(9x + 7)(9x - 7)$

10.  $(2x^2 - 5)(2x^2 + 5)$

11.  $(5x + 1)^2$

12.  $(2x - 9)^2$

13.  $(x - 4)(2x^2 + x - 1)$

14.  $(2x + 5)(4x^2 - 3x + 2)$

15.  $\frac{16x^5 y^8}{x^7 y^4} \cdot \left( \frac{x^3 y^2}{-4xy} \right)^4$

16.  $\frac{4xy}{2x^{-1} y^{-3}} \cdot \left( \frac{2xy^2}{3xy} \right)^{-2}$

17. Use point-slope form to write the equation for a line, but write the answer in slope-intercept form: the line has slope  $\frac{-3}{5}$  and passes through (15, -1).

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