

SM2a HW #4-6 (Regression)**Simplify each difference.**

1) $(4x^3 + 3x^4 + 2x^2) - (5x^4 + 5x^3 + 6x^2)$

Find each product. Hint: Use the box method.

2) $(2x + 8)(4x^2 - x - 2)$

Factor each completely.

3) $a^2 - a - 30$

4) $r^2 - 5r - 24$

Find the slope of the line through each pair of points. Hint: Use regression.

5) $(-11, 4), (-12, 12)$

6) $(-17, 11), (-5, 2)$

7) $(7, -15), (1, -20)$

8) $(-1, -4), (13, -8)$

Write the slope-intercept form of the equation of the line through the given points. Hint: Use regression.

9) through: $(-1, -5)$ and $(3, -1)$

10) through: $(-2, 4)$ and $(-5, -3)$

11) through: $(1, 0)$ and $(-1, -1)$

12) through: $(-3, 3)$ and $(0, 1)$

13) through: $(5, -3)$ and $(-1, 3)$

14) through: $(-4, -3)$ and $(5, 5)$