

1.6 – Distributing A Negative

Simplify. THEN Evaluate.

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$$1. \quad 5 - 7(2n + 1)$$

$$\begin{array}{r} 5 - 14n - 7 \\ - 14n - 2 \end{array}$$

$$2. \quad 2n - 5(6 - 3n)$$

$$\begin{array}{r} 2n - 30 + 15n \\ 17n - 30 \end{array}$$

71

$$3. \quad 11 - (5x + 4)$$

$$\begin{array}{r} 11 - 5x - 4 \\ - 5x + 7 \end{array}$$

$$4. \quad -5(3y - 7) - (6 + 4y)$$

$$\begin{array}{r} -15y + 35 - 6 - 4y \\ -19y + 29 \end{array}$$

$$7. \quad -3(7 - x) - (3 - x) - 5x \text{ for } x = 3$$

$$\begin{array}{r} -21 + 3x - 3 + x - 5x \\ -x - 24 \\ -3 - 24 \\ -27 \end{array}$$

$$8. \quad 10 - 2(3 - 4x) - (3x - 2) \text{ for } x = -4$$

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

$$\begin{array}{r} 12x - 6 - 4x - 6 - 5 \\ 8x - 17 \end{array}$$

$$6. \quad 12 - 3(5x - 7) - 4x \text{ for } x = -2$$

$$\begin{array}{r} 12 - 15x + 21 - 4x \\ 33 - 19x \\ 33 - 19(-2) \\ 33 + 38 \\ 71 \end{array}$$