

Name: Key
8A; Algebra 1

Review as:

$$(x+6)^2 = (x+6)(x+6)$$

Date: _____
Period _____

Do Now

Write the following in expanded form and simplify.

$$1) (x+\sqrt{3})^2 = (x+\sqrt{3})(x+\sqrt{3})$$

$$x^2 + x\sqrt{3} + x\sqrt{3} + \sqrt{9}$$

$$x^2 + 1x\sqrt{3} + 1x\sqrt{3} + 3$$

$$x^2 + 2x\sqrt{3} + 3$$

$$2) (x-2\sqrt{5})(x-3\sqrt{5})$$

$$\begin{array}{r} -2\sqrt{5} \cdot -3\sqrt{5} \\ 6\sqrt{25} \end{array}$$

$$x^2 - 3x\sqrt{5} - 2x\sqrt{5} + 6\sqrt{25}$$

$$x^2 - 3x\sqrt{5} - 2x\sqrt{5} + 6 \cdot 5$$

$$x^2 - 3x\sqrt{5} - 2x\sqrt{5} + 30$$

$$x^2 - 5x\sqrt{5} + 30$$