

$$9) x^2 - 25 = 0$$

$$(x+5)(x-5) = 0$$

$$x+5=0 \text{ OR } x-5=0$$

$$x = -5 \quad x = 5$$

$$10) 4x^2 - 1 = 0$$

$$(2x+1)(2x-1) = 0$$

$$2x+1=0 \text{ OR } 2x-1=0$$

$$2x = -1 \quad 2x = 1$$

$$x = -\frac{1}{2} \quad x = \frac{1}{2}$$

$$11) 2x^2 - 8 = 0$$

$$2(x^2 - 4) = 0$$

$$2(x+2)(x-2) = 0$$

$$x+2=0 \text{ OR } x-2=0$$

$$x = -2 \quad x = 2$$

$$12) x^2 + 8x + 16 = 0$$

$$(x+4)(x+4) = 0$$

$$x+4=0 \text{ OR } x+4=0$$

$$x = -4$$

$$13) 9x^2 - 30x + 25 = 0$$

p 225

$$9x^2 - 15x - 15x + 25 = 0 \quad s -30$$

use -15, -15

$$3x(3x-5) - 5(3x-5) = 0$$

$$(3x-5)(3x-5) = 0$$

$$3x-5=0 \text{ OR } 3x-5=0$$

$$3x = 5$$

$$x = \frac{5}{3}$$

$$14) 4x^2 + 20x + 25 = 0$$

p 100

s 20

$$4x^2 + 10x + 10x + 25 = 0 \quad \text{use } 10, 10$$

$$2x(2x+5) + 5(2x+5) = 0$$

$$(2x+5)(2x+5) = 0$$

$$2x+5=0 \text{ OR } 2x+5=0$$

$$2x = -5$$

$$x = -\frac{5}{2}$$