## QUADRATIC EQUATIONS WITHOUT A CONSTANT TERM

To solve  $ax^2 + bx = 0$ : the equation has no constant term, so the common factor is x or a multiple of x.

## Example 10

Solve:

(a) 
$$x^2 - 3x = 0$$
 (b)  $4x^2 = 8x$ 

(b) 
$$4x^2 = 8x^2$$

Solution

(a) 
$$x^2 - 3x = 0$$

(b) 
$$4x^2 = 8x$$
  
 $4x^2 - 8x = 0$ 

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

$$x = 0$$
 or  $x = 3$   $4x(x - 2) = 0$ 

Divide by 4, do **not** divide by x