

## Revision Worksheet

### Solve

$$1. \ 4x = 12$$

$$2. \ 4x - 2 = 10$$

$$3. \ \frac{4x}{3} = 4$$

$$4. \ \frac{4x}{3} - 2 = 2$$

$$5. \ 2\left(\frac{2x}{3} - 1\right) = 2$$

$$6. \ 2\left(\frac{2x}{3} - 1\right) + \frac{2x}{3} = 2$$

$$7. \ 4x + 5 = 3(x + 1)$$

$$8. \ \frac{4x + 2}{3} = \frac{3x - 2}{4}$$

**Factorise as far as possible:**

1.  $3x^2 + 6x$

2.  $4x^3 - 6x^2 + 8x^4$

3.  $9x^2 - 4$

4.  $x^2 + 3x - 4$

**Solve**

1.  $x^2 + 3x - 4 = 0$

2.  $x^2 - 3x - 4 = 0$

3.  $x^2 + 4x + 4 = 0$

4.  $4x^2 + 12x - 16 = 0$

5.  $2x^2 - 6x - 8 = 0$

**END**