**Question:**

Simplify this expression:

$5 - 3 \left( x^2 + 2x - 5 \right) + 3x^2$

**Question:**

Simplify this expression:

$8p^{-4} \div 4p^3$

**Question:**

Factorise this expression completely:

$2x^2 + 4x$

**Question:**

Factorise this expression completely:

$15y - 20yz^2$

Factorise:

$x^2 + 8x + 12$

**Question:**

Factorise:

$x^2 - 2x - 24$

**Question:**

Factorise:

$2x^2 + 7x - 15$

**Question:**

Factorise:

$x^2 - 4$

**Question:**

Factorise:

$36x^2 - 4$

Simplify:

(a) $x^3 \div x^{-2}$

(b) $x^5 \div x^7$

(c) $x^{\frac{3}{2}} \times x^{\frac{5}{2}}$

(d) $\left(x^2\right)^{\frac{3}{2}}$

(e) $\left(x^3\right)^{\frac{5}{3}}$

(f) $3x^{0.5} \times 4x^{-0.5}$

(g) $9x^{\frac{2}{3}} \div 3x^{\frac{1}{6}}$

(h) $5x^{1\frac{2}{5}} \div x^{\frac{2}{5}}$

(i) $3x^4 \times 2x^{-5}$

Evaluate:

(a) $25^{\frac{1}{2}}$

(b) $81^{\frac{1}{2}}$

(c) $27^{\frac{1}{3}}$

(d) $4^{-2}$

(e) $9^{-\frac{1}{2}}$

(f) $(-5)^{-3}$

(g) $\left( \dfrac{3}{4} \right)^0$

(h) $1296^{\frac{1}{4}}$

(i) $\left( 1\dfrac{9}{16} \right)^{\frac{3}{2}}$

(j) $\left( \dfrac{27}{8} \right)^{\frac{2}{3}}$

(k) $\left( \dfrac{6}{5} \right)^{-1}$

(l) $\left( \dfrac{343}{512} \right)^{-\frac{2}{3}}$

**Question:**

Simplify:

$\sqrt{28}$

**Question:**

Simplify:

$$\frac{\sqrt{12}}{2}$$

**Question:**

Simplify:

$\sqrt{175} + \sqrt{63} + 2\sqrt{28}$

**Question:**

Rationalise the denominator:

$$\frac{1}{\sqrt 5}$$

**Question:**

Rationalise the denominator:

$$\frac{4}{3 - \sqrt{5}}$$

**Question:**

Rationalise the denominator:

$$\frac{11}{3 + \sqrt{11}}$$

**Question:**

Rationalise the denominator:

$$\frac{\sqrt{2} - \sqrt{3}}{\sqrt{3} - \sqrt{2}}$$