

MBA Maths Concepts 2009
Practice quiz 1

Question 1

Fully Factorize

(a) $x^2 - 2x - 8$

(b) $x^2 - 6x + 9$

(c) $9x^2 + 30x + 25$

(d) $x^4 - 16$

(e) $6x^3 + x^2 - 2x$

Question 2

Solve by Factorizing

(a) $x^2 - 7x + 12 = 0$

(b) $y^2 - 5y = 6$

(c) $t^3 = 25t$

(d) $15s^2 - 8 = -14s$

(e) $6 - x^2 = x$

Question 3

Express as Positive integers

(a) $\frac{(\sqrt{xy})^3}{y}$

(b) $(\sqrt{xy})^4 x^{-1}y$

(c) $\frac{120x^2y}{16xy^2}$

(d) $\left(\frac{15x}{72zy} \div \frac{5}{9y} \right) \div \frac{5xy}{12z}$

(e) $\frac{\sqrt{12x^4} \sqrt{5x^3}}{\sqrt{15x}}$

Question 4

Solve for x

(a) $\frac{5x-2}{x+1} = 0$

(b) $\frac{4x}{7-x} = 1$

(c) $\frac{1}{x-3} - \frac{3}{x-2} = \frac{4}{1-2x}$

(d) $\frac{2x}{x-3} - \frac{x+1}{x+2} = 1$