

ELEMENTARY MATHEMATICS

Paper 2: Suggested Solutions

4016/02

October/November 2011

1. Topic: Algebra (Formal, Algebraic Manipulation)

(a) $\frac{3x+7}{5} = \frac{9-3x}{2}$

$5(2x+7) = 3(3-x)$

$10x+35 = 9-3x$

$13x = -26$

$x = -2$

(b) $5x = 2(x+3)$

$5x = 2x+6$

$5x-2x = 6$

$3(x-2) = 6$

$x = \frac{6}{3}$

$x = 2$

Group all variables containing x.

(c) $\frac{x}{x+2} + \frac{x}{x+3} = \frac{4x+5(2x+6)}{(x+2)(x+3)}$

$\frac{x(x+3) + x(x+2)}{(x+2)(x+3)} = \frac{4x+5(2x+6)}{(x+2)(x+3)}$

$\frac{x^2+3x+x^2+2x}{(x+2)(x+3)} = \frac{4x+10x+30}{(x+2)(x+3)}$

$\frac{2x^2+5x}{(x+2)(x+3)} = \frac{14x+30}{(x+2)(x+3)}$

$2x^2+5x = 14x+30$

$2x^2-9x-30 = 0$

$(2x+5)(x-6) = 0$

$2x+5 = 0$

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

$x^2 - 9^2 = (x+9)(x-9)$

2. Topic: Angle Properties of Polygon & Geometry (Geometrical Properties of Circles)

(a) $\text{Ext. } \angle = 180^\circ - 152^\circ$

$= 28^\circ$

Number of sides = $\frac{360^\circ}{28^\circ}$

$= 13$

Sum of exterior angles of polygon is $360^\circ \Rightarrow$ Number of sides = $\frac{360^\circ}{28^\circ}$

(b) (i) (a) $\angle ACP = 90^\circ$ (C.M. $\perp$ A.P.)

$\angle ACP = 180^\circ - \angle ACP - \angle APC$

$= 180^\circ - 90^\circ - 36^\circ$ (Sum of $\angle$ in Δ)

$= 54^\circ$

(b) $\angle CDB = \angle ACP = 54^\circ$

$\angle BDC = \frac{180^\circ - 54^\circ}{2}$ (Since Δ $\triangle OBC \cong \triangle OCB$)

$= \frac{126^\circ - 54^\circ}{2}$

$= 36^\circ$

(c) $\angle ACB = \frac{\text{reflex } \angle AOB}{2}$

$= \frac{360^\circ - 126^\circ}{2}$ ($\angle$ at centre = $2 \times$ $\angle$ at circumference)

$= 117^\circ$

(d) $\tan 36^\circ = \frac{x}{100}$

$x = 100 \tan 36^\circ$

$= 72.0508$

$= 72.1 \text{ m}$ (3 sig fig)

Area of $\Delta ACP = \frac{1}{2} \times AC \times AP \times \sin 90^\circ$

$= \frac{1}{2} \times 100 \times 72.0508 \times 1$

$= 3602.54$

$= 3603 \text{ cm}^2$ (3 sig fig)

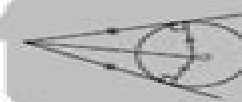
Radius $\perp$ Tangent
 $\angle ACP = 90^\circ$



$\angle$ at centre = $2 \times$ $\angle$ at circumference



(e)



3. Topic: Arithmetic (Application of Mathematics in Practical Situations & Compound Interest)

(a) (i) $250 \text{ km} \rightarrow 15.75 \text{ litres}$

$1 \text{ km} \rightarrow \frac{15.75}{250} = 0.063 \text{ litres}$

$100 \text{ km} \rightarrow 0.063 \times 100 = 6.3 \text{ litres}$

Fuel consumption of the car is 6.3 litres per 100 km.

(ii) (a) $0.2 \text{ litres} \rightarrow 100 \text{ km}$

$1 \text{ litre} \rightarrow \frac{100}{0.2} = 500 \text{ km}$

$60 \text{ litres} \rightarrow 12.6 \times 500 = 6300 \text{ km}$

$= 6300 \text{ km}$ (3 sig fig)

(b) $100 \text{ km} \rightarrow 0.2 \text{ litres}$

$1 \text{ km} \rightarrow \frac{0.2}{100} = 0.002 \text{ litres}$

$120 \text{ km} \rightarrow 0.002 \times 120 = 0.24 \text{ litres}$

Cost of petrol = $0.24 \times \$1.65$

$= \$0.396$

$= \$0.40$ (rounded cost)

(c) (i) $5 \text{ units} \rightarrow \1000

$1 \text{ unit} \rightarrow \frac{1000}{5} = \200

$12 \text{ units} \rightarrow 200 \times 12$

$= \$2400$

(ii) Total amount of money = $P \left(1 + \frac{r}{100} \right)^n$

$= \$1000 \left(1 + \frac{12}{100} \right)^5$

$= \$1197.4063$

$= \$1197.41$ (rounded costs)

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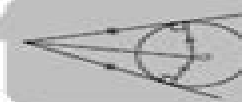
Radius $\perp$ Tangent
 $\angle ACP = 90^\circ$



$\angle$ at centre = $2 \times$ $\angle$ at circumference



(e)



4. Topic: Solutions to Quadratic Equations

(a) Length of the block = $x \text{ cm}$

Height of the block = $(x+1) \text{ cm}$

Width of the block = $(x-3) \text{ cm}$



Total Surface area = $2(\text{length} \times \text{width}) + 2(\text{width} \times \text{height}) + 2(\text{length} \times \text{height})$

Total surface area = $2x(x-3) + 2(x-3)(x+1) + 2x(x+1)$

$= 2x^2 - 6x + 2x^2 - 2x - 3 + 2x^2 + 2x$

$= 2x^2 - 6x + 2x^2 - 4x - 3 + 2x^2 + 2x$

$= 6x^2 - 8x - 3 \text{ cm}^2$

(b) $6x^2 - 8x - 3 = 0$

$6x^2 - 8x - 3 = 0$

$12x^2 - 16x - 6 = 0$ (divided)

(c) $3x^2 - 4x - 253 = 0$

$3x^2 - 4x - 253 = 0$

$x = \frac{-(-4) \pm \sqrt{(-4)^2 - 4(3)(-253)}}{2(3)}$

$= \frac{4 \pm \sqrt{16 + 3036}}{6}$

$= \frac{4 \pm \sqrt{3052}}{6}$

$= 9.74 \text{ or } -8.5408$

$= 9.74 \text{ or } -8.54$ (2 d.p.)

Quadratic formula formula

$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

$x = \frac{-(-4) \pm \sqrt{(-4)^2 - 4(3)(-253)}}{2(3)}$

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Radius $\perp$ Tangent
 $\angle ACP = 90^\circ$



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