Ex 26 Trig Equations

Section A (Non-calculator)

1 Evaluate

b)
$$3\frac{1}{6} \div 1\frac{2}{3}$$

c)
$$1\frac{3}{5} + 2\frac{4}{7}$$

Section B (Knowledge)

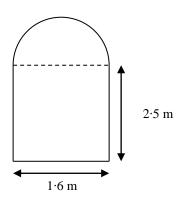
3 Sketch the "all-sin-tan-cos" quadrant diagram.

Use it to say if the following are positive or negative.

- (i) sin 220°
- (ii) cos 95°(iii) tan 215°
- (iv) cos 305°
- 4 Solve these equations, correct to 0.1, for $0 \le x \le 360$:
 - (a) $\sin x^{\circ} = 0.9$
- (b) $3 \cos x^{\circ} = 1$
- (c) $3 \tan x^{\circ} 5 = 0$

Section C (Mixed)

5 Work out the area of this shape.



The weight, w kilograms, of a giraffe is related to its age, M months, by the formula

$$\frac{1}{4}(M^2-4m+272)$$

At what age will the giraffe weigh 83 kilograms?

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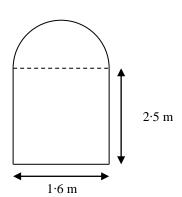
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