

SECTION I

Answer ALL questions.

All working must be clearly shown.

1. (a) Calculate the EXACT value of

$$\left(1\frac{3}{4} - \frac{1}{8}\right) + \left(\frac{5}{6} + \frac{2}{3}\right). \quad (3 \text{ marks})$$

- (b) Using a calculator or otherwise, calculate

$$\sqrt{2.891} + \frac{1.2}{(1.31)^2}$$

giving your answer correct to 2 decimal places.

(3 marks)

- (c) A jeweller paid \$6 800 for 165 bracelets bought in China. The Customs Department in his country charged him \$1 360 in duty.

- (i) Calculate the TOTAL cost of the 165 bracelets inclusive of duty. (1 mark)

- (ii) The jeweller sold the 165 bracelets at a selling price of \$68.85 EACH.

- a) Calculate the TOTAL profit he made on the sale of the 165 bracelets. (2 marks)

- b) Calculate the profit as a percentage of the cost price, giving your answer to the nearest whole number. (2 marks)

Total 11 marks

2. (a) (i) Solve for
- x
- , where
- x
- is a real number

$$2(x - 6) + 3x \leq 8. \quad (3 \text{ marks})$$

- (ii) Using a number line, show your solution to Part (a) (i). (1 mark)

- (b) Factorize completely:

- (i)
- $3x - 6y + ax - 2ay$
- (2 marks)

- (ii)
- $p^2 - 1$
- (1 mark)

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besarnya momen inersia suatu benda bergantung terhadap beberapa faktor yaitu massa benda atau partikel geometri benda bentuk letak sumbu putar benda jarak ke sumbu putar benda lengan momen rumus momen inersia besarnya momen inersia i suatu benda bermassa yang memiliki titik putar pada sumbu yang diketahui dirumuskan sebagai berikut

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menentukan titik berat penampang berhubung momen inersia yang diinginkan akan dipergunakan dalam perhitungan lenturan maka momen inersia ini haruslah diperhitungkan terhadap sumbu yang melalui titik berat penampang keterangan luas a mm² jarak titik berat thd garis bawah y mm a x y mm³ luas total 40 x 60 2400 30 2400 x 30 72000

contoh perhitungan momen inersia seputar dunia teknik sipil - May 07 2022

dec 1 2009 sekedar pengingat saja untuk persegi momen inersia nya adalah dan lokasi titik beratnya ada pada seperdua lebar dan seperdua tinggi persegi sementara untuk segitiga siku siku momen inersia dan lokasi titik beratnya ada

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menentukan titik berat penampang berhubung momen inersia yang diinginkan akan dipergunakan dalam perhitungan lenturan maka momen inersia ini haruslah diperhitungkan terhadap sumbu yang melalui titik berat penampang keterangan luas a mm² jarak titik berat thd alas y mm a x y mm³ luas total 40 x 60 2400 30 2400 x 30 72000 luas