

In the diagram above, |PQ| = |QR|,  $|PS| = |RSL| \times R G \Theta$  and  $\angle PQR = 80^{\circ}$ . Find  $\angle SPQ$ .

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- 50°
- 55°

## **Answer Details**

oin PR

QRP = QPR

 $= 180 - 80 = \frac{100}{20} = 50^{\circ}$ 

SRP = SPR

$$= 180 - 30 = \frac{150}{2} = 75^{\circ}$$

:. SPQ = SPR - QPR

Given that 1/2 log<sub>10</sub> P = 1, find the value Of P

# Preview from Notesale.co.uk Preview page 8 of 48 101

- O 10<sup>-1</sup>

# **Answer Details**

1/2log10P

$$log_{10}P^{1/2} = 1$$

$$P^{1/2} = 10$$

$$p = 10^2$$

Obi borrows #10.00 ab toler month simple for est and repays #8.00 after 4 months, how much does he still owe? Page 35

- ₩10.80
- ₩10.65
- → ¥2.80
- ₩2.67

Find the two value of y which satisfy the simultaneous equation 3x + y = 8,  $x^2 + xy = 6$ Preview Page

-1 and 5  $\odot$ 

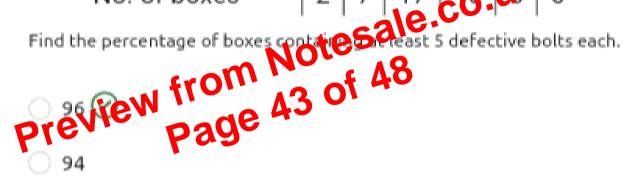
-5 and 1

1 and 5

1 and 1

Fifty boxes each of 50 bolts were inspected for the number which were defective. The following was the result:

No. defective per box	4	5	6	7	8	9
No. of boxes	2	7	17	<b>-10</b> -	UK	6



- 92
- 90

## **Answer Details**

% of boxes containing at least 5 defective bolts each

$$=\frac{48}{50} \times \frac{100}{1}$$

Simplify  $\cos^2 x (\sec^2 x + \sec^2 x \tan^2 x)$ 

- tanx secx from Notes ale.co.uk

  Preview Page 46 of 48

  1+tan²x sec²x
  - cosec<sup>2</sup>x

# **Answer Details**

$$cos2 x (sec2x + sec2 x tan2x)$$

$$= \frac{cos2x}{cos2x} x \frac{cos2xsin2x}{cos2xcos2x}$$

$$= \frac{\frac{1+sin2x}{cos2x}}{\frac{1+tan2x}{sec2x}}$$

What is the product of  $\frac{27}{5^1}(3)^{-3}$  and  $\frac{(1)^{-1}}{5}$ ?

Preview from Notesale.co.uk
Preview from 47 of 48
Page 47 of 48

# **Answer Details**

$$\frac{27}{5^1}$$
(3)<sup>-3</sup> x  $\frac{(1)^{-1}}{5}$  =  $\frac{27}{5}$  x  $\frac{1}{3^3}$  x  $\frac{1}{\frac{1}{5}}$ 

$$=\frac{27}{5} \times \frac{1}{27} \times \frac{5}{1}$$

= 1

Solve the equation (x - 2)(x - 3) = 12

# O -1,6 ew from Notesale.co.uk Preview from 48 of 48 Page 48 of 48

# **Answer Details**

$$(x - 2) (x - 3) = 12$$

$$x^2 - 3x - 2x + 6 = 12$$

$$x^2 - 5x - 6 = 0$$

$$(x - 1)(x - 6) = 0$$

$$x = -1 \text{ or } 6$$