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Class: 3C3

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No. -

Maths D Holiday HW

Algebra 3.2 P1

6a. $y = \frac{k}{\sqrt{x}}$
 $4 = \frac{k}{\sqrt{36}}$
 $4 = \frac{k}{6}$

$k = 24$ *

b. $p = \frac{24}{\sqrt{4}}$
 $= \frac{24}{2}$
 $= 12$

c. $8 = \frac{24}{\sqrt{q}}$

$24 = 8 \times \sqrt{q}$

$\sqrt{q} = 3$

$q = 9$ *

7a. $4^{-2} = \frac{1}{16}$

b. $(\frac{1}{9})^{\frac{2}{3}} = [\frac{1}{(\sqrt[3]{9})^2}]$
 $= [\frac{1}{3^2}]$
 $= \frac{1}{27}$

c. $17^{12} \div 17^{11} = 17^{12-11}$
 $= 17$ *

8. $y \propto x^2$

$y = kx^2$

$48 = k \times 4^2$

$\therefore k = \frac{48}{16}$

$= 3$

$y = 3x^2$ *

9a. $p = kq^3$

$500 = k \times 5^3$

$k = \frac{500}{125}$

$= 4$

$p = 4q^3$ *

b. $p = 4 \times (-3)^3$
 $= 4 \times (-27)$
 $= -108$ *

10a. $2^{-3} = \frac{1}{8}$

b. $(\frac{4}{25})^{\frac{1}{2}} = \sqrt{\frac{4}{25}}$
 $= \frac{2}{5}$ *