

Math Fitness Test

No calculators!

About 1 min per question

1. Cancel

$$\frac{4x^3 y^{\frac{1}{3}}}{2x^3 y^{-3}}$$

2. Add

$$3 \times 10^{10} + 3.07 \times 10^{12}$$

3. Cancel

$$\frac{z^2 - 2z + 1}{z - 1}$$

4. Solve for p, q

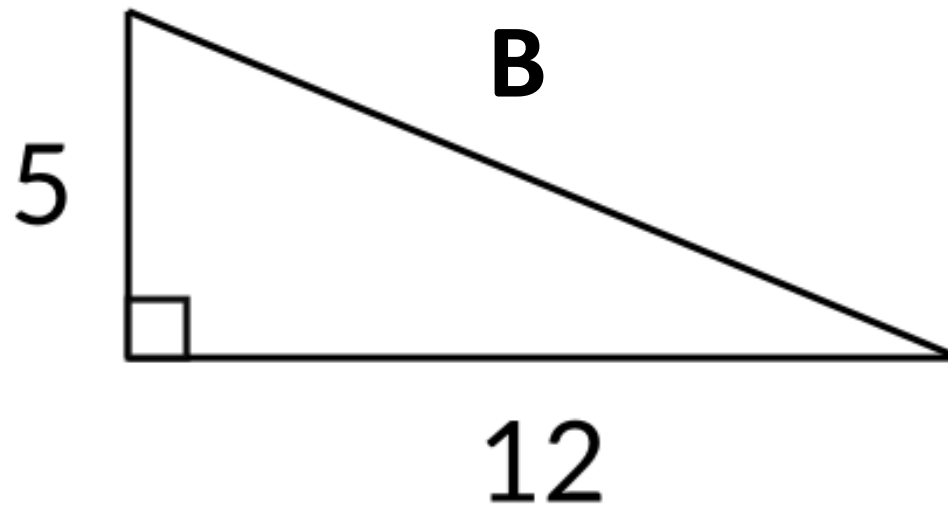
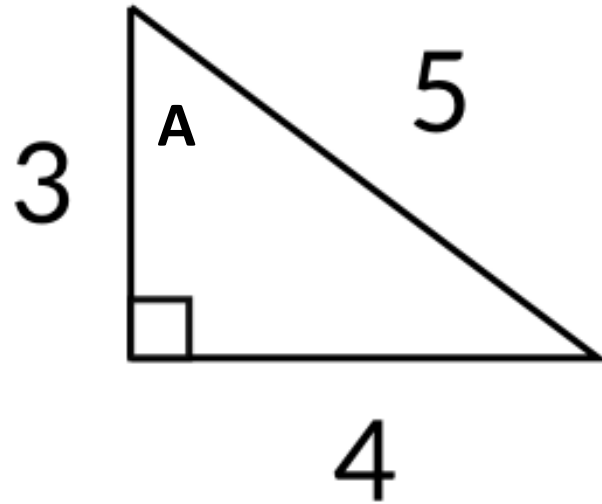
$$5p - 2q = 9$$

$$2p + 5q = -8$$

5. Sketch Graph

$$y = -4x^2 + 12x - 8$$

8. Find B & $\sin A$



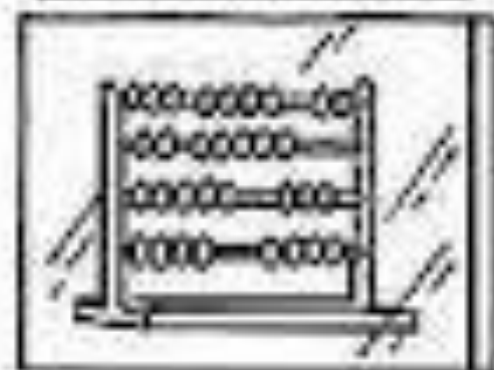
9. Differentiate

$$t^3(1+t)$$

10. Integrate

$$\int_1^3 (t^2 + 2t + 1) dt$$

BREAK GLASS
IN EMERGENCY



search ID: sea0478

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Answers

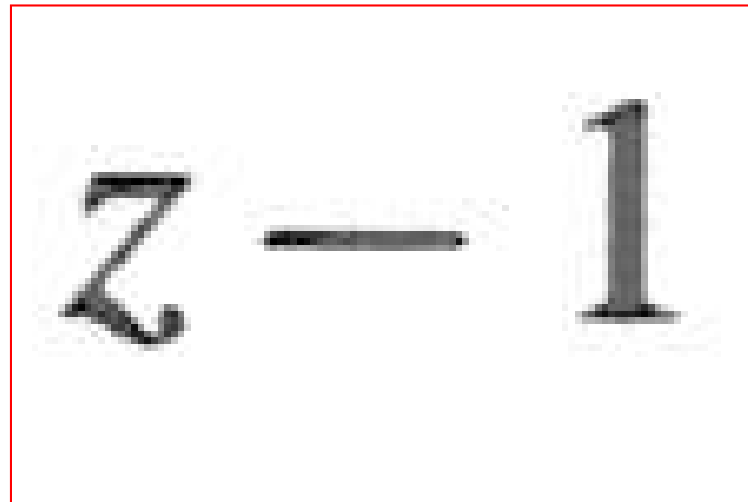
1.

$$2y^{10/3}$$

2.

$$3.1 \times 10^{12}$$

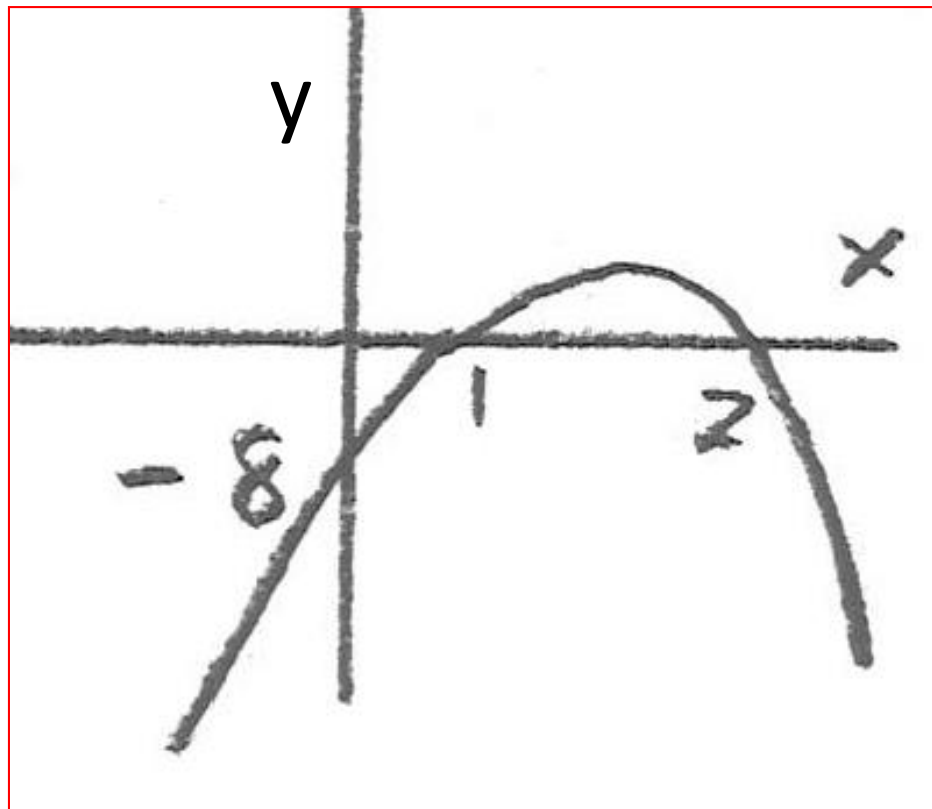
3.



4.

$$p = 1, q = -2$$

5.



8.

$$\sin A = 4/5$$

$$B = 13$$

9.

$$3t^2 + 4t^3$$

10.

56/3