BIG MISTAKE?

Find the value of $2x^2$ when x = 3

$x = 3$

$2 \times 3 = 6$

$6^2 = 36$

A

BIG MISTAKE?

Find the value of $x^2 - x$ when x = -2

$x = -2$

$-2^2 - -2$

$-4 + 2 = -2$

B

BIG MISTAKE?

Simplify

$2x - 3y + 4x + 2y$

$2x + 4x = 6x$

$3y + 2y = 5y$

$6x - 5y$

C

BIG MISTAKE?

Simplify

$2x^2 + 3x - x^2 - 2x^2$

$2 + 3 - 1 - 2 = 2$

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

D

BIG MISTAKE?

Simplify

$$\frac{8a + 4ab - 4a}{2a}$$

$\frac{4a + 4ab}{2a}$

$2a + 4b$

E

BIG MISTAKE?

Simplify

$$3y^5 \times 5y^3$$

$3 \times y^5 \times 5 \times y^3$

$= 15y^{15}$

F

BIG MISTAKE?

Simplify

$$(2x^3)^4$$

$2^4 \times (x^3)^4$

$= 8x^{12}$

G

BIG MISTAKE?

Simplify

$$6y^{-1} \div 12y^{-3}$$

$\frac{12y^{-3}}{6y}$

$= 2y^{-4}$

H

BIG MISTAKE?

Expand and simplify

$4(x+1) - 3(x - 2)$

$4x + 4 - 3x - 6$

$= x - 2$

I

BIG MISTAKE?

Expand

$xy(2x + 3y)$

$2xy^2 + 3xy^2$

$= 5xy^2$

J

BIG MISTAKE?

Factorise completely

$16ab - 24a$

$2(8ab - 12a)$

$= 2a(8b - 12)$

K

BIG MISTAKE?

Factorise completely

$15x^2yz - 45xy^2z$

$15(x^2yz - 3xy^2z)$

$= 15xyz(x - 3xy)$

L

BIG MISTAKE?

Expand and simplify

$(x - 5)(x + 5)$

$x^2 - 5x - 5x - 25$

$= x^2 - 10x - 25$

M

BIG MISTAKE?

Solve

$\frac{x + 2}{3} = 5$

$x + 2 = 15$

$x = 13$

N

BIG MISTAKE?

Solve

$x^2 - 15x = 0$

$x(x - 15) = 0$

$x - 15 = 0$

$x = 15$

O

BIG MISTAKE?

Solve

$x^2 - x - 12 = 0$

$(x - 3)(x + 4) = 0$

$x - 3 = 0$ $\quad$ $x + 4 = 0$

$x = 3$ $\quad$ $x = -4$

P

BIG MISTAKE?

Solve simultaneously

$3p + 5q = 7$

$p - 2q = -5$

$p - 2q = -5 \quad (\times 3)$

$3p + 5q = 7$

$3p - 6q = -5$

$-q = -12$

$p - 2\times -12 = -5$

$p = -29$

Q

BIG MISTAKE?

Solve

$3 \leq 5x - 2 < 23$

$5 \leq 5x \leq 25$

$1 \leq x \leq 5$

R

BIG MISTAKE?

Make x the subject of the formula

$$y = \frac{a - x}{b}$$

$by = a - x$

$x = by - a$

S

BIG MISTAKE?

Make x the subject of the formula

$$v = a\sqrt{x}$$

$$\sqrt{x} = \frac{v}{a}$$

$$x = \frac{v^2}{a}$$

T