



Evaluate algebraic expressions by substitution

1

What is the value of this equation when $b=3$, $x=4$

$$3b - 5x$$

A	$3b - -11$	B	$b^3 + -11$
C	$-11b$	D	$-16b$
E	-11	F	-27

2

What does this equation become when $n=5$, $x=3$

$$2(4n + 4x)$$

A	$2 + (4 \times 5 \times 4 \times 3)$
B	$2 \times (4 \times 5 + 4 \times 3)$

3

What is the value of this equation when $y=2$, $r=3$

$$4(5y - 4r)$$

A	$-11y$	B	100
C	-13	D	56
E	-8	F	$5y - -8$

4

What is the value of this equation when $x=-3$, $y=8$

$$-3(5x + 2y)$$

A	61	B	$5x - -3$
C	$3x$	D	-45
E	$x^5 + -3$	F	-3

5

What is the value of this equation when $m=4$, $y=2$, $x=3$

$$\frac{2m}{4y} + 3x$$

A	$2m$	B	3
C	3	D	$2m - 10$
E	10	F	48

6

What is the value of this equation when $y=4$, $p=2$

$$\frac{5y^2}{5p}$$

A	$-5y$	B	8
C	$5y - 8$	D	4
E	-100	F	100

7

What is the value of this equation when $p=6$, $n=-3$, $m=-4$

$$-6\left(\frac{2p - 6m}{3n}\right)$$

A	-99	B	63
C	24	D	99
E	$3p$	F	$2p - 24$

8

What is the value of this equation when $y=-5$, $n=5$, $x=-4$

$$-\frac{6y}{3n} + 5x$$

A	$y^6 + -18$	B	$6y - -18$
C	-22	D	225
E	-18	F	-225



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9

What is the value of this equation when $r=-8$, $x=2$, $d=4$

$$\frac{5r^2 - 2d^2}{6x}$$

A	$r^5 + 24$	B	24
C	2	D	$5r - 24$
E	$24r$	F	$-24r$

10

What is the value of this equation when $x=8$, $d=-7$

$$2x - 4d$$

A	44	B	$x^2 + 44$
C	100	D	-128
E	256	F	$39x$

11

What is the value of this equation when $m=2$, $z=3$, $r=4$

$$\frac{5m + 2r}{2z}$$

A	3	B	-5
C	38	D	$m^5 + 3$
E	-38	F	-2

12

What is the value of this equation when $z=-4$, $x=-3$, $b=2$

$$\frac{6z^2}{4x^2 - 3b^2}$$

A	$6z - 4$	B	4
C	84	D	$4z$
E	132	F	2