

EVALUATING POLYNOMIALS

Evaluate each of the following for the indicated values.

1. $x-1$ when $x=-3$

2. $4+x$ when $x=-11$

3. $x+7$ when $x=-11$

4. $-3+x$ when $x=5$

5. $8-2(x+2y)$ when $x=-5$ and $y=-1$

6. x^2+2x-5 when $x=-3$

7. x^2+4x-2 when $x=-2$

8. $-(3x^2-4x+8)$ when $x=-2$

9. a^2-bc when $a=1.2$, $b=0.6$ and $c=2.5$

10. $\frac{x^2-y^2}{3+xy}$ when $x=4$ and $y=-3$

11. $3x^2+2xy-y^2$ when $x=-1$ and $y=3$

12. $5x-z+2y$ when $x=-1$, $y=3$ and $z=-2$

Evaluate each of the following when $x = \frac{3}{4}$, $y = \frac{1}{3}$ and $z = \frac{9}{16}$. Write answers as fractions in lowest terms.

13. $x + yz$

14. $x^2 \div z$

Evaluate the following if $x = -1$, $y = 3$, $z = -2$, $a = 4$ and $b = -5$.

15. $3y^2 + 2a$

16. $5x - z + 2b$

17. $z^2 - x^2$

18. $\frac{b - x}{2a}$

Answers

1. -4

2. -7

3. -4

4. 2

5. 22

6. -2

7. -6

8. -28

9. -0.06

10. $-\frac{7}{9}$

11. -12

12. 3

13. $\frac{15}{16}$

14. 1

15. 35

16. -13

17. 3

18. $-\frac{1}{2}$