mobius

Math worksheet on *'Algebraic Functions - Variable Substitution to Equation - Fractional Terms (Negatives) (Level 2)'*. Part of a broader unit on *'Algebra Basic Concepts - Advanced'*

Learn online: app.mobius.academy/math/units/algebra_basic_concepts_advanced/

1 What does this equation become when c=4, y=-2, r=2

$$\frac{4c+2r}{2y}$$

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

b $\frac{4\cdot 4+2\cdot 2}{2\cdot -2}$

c 4^4+2^{-2}

d $\frac{4-4-2-2}{2--2}$

e $\frac{4^4+2^2}{2^{-2}}$

f $4-4+2--2$

2 What does this equation become when n=4, b=-4, c=-3

$$\frac{3n-4c}{3b}$$

a $3-4+3--4$

b $\frac{3-4-4--3}{3--4}$

c $\frac{3\cdot 4-4\cdot -3}{3\cdot -4}$

d $\frac{3^4+4^{-3}}{3^{-4}}$

e $\frac{3+4+4+-3}{3+-4}$

f $\frac{3\cdot 4+4\cdot -3}{3\cdot -4}$

3 What does this equation become when x=3, c=-3, r=5

$$\frac{4x-6r}{6c}$$

a $\frac{4^3+6^5}{6^{-3}}$

b $\frac{4\cdot 3-6\cdot 5}{6\cdot -3}$

c $\frac{4-3-6-5}{6--3}$

d $\frac{4+3+6+5}{6+-3}$

e $4-3+6--3$

f $\frac{4\cdot 3+6\cdot 5}{6\cdot -3}$

4 What does this equation become when r=-4, p=-3, z=-5

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

a $\frac{5+-4+2+-5}{5+-3}$

b $5--4+5--3$

c $\frac{5^{-4}+2^{-5}}{5^{-3}}$

d $\frac{5--4-2--5}{5--3}$

e $\frac{5\cdot -4+2\cdot -5}{5\cdot -3}$

f $5^{-4}+5^{-3}$

5 What does this equation become when m=-4, z=3, r=-3

$$\frac{6m+2r}{2z}$$

a $\frac{6\cdot -4+2\cdot -3}{2\cdot 3}$

b $6^{-4}+2^3$

c $\frac{6+-4+2+-3}{2+3}$

d $\frac{6--4-2--3}{2-3}$

e $\frac{6^{-4}+2^{-3}}{2^3}$

f $6--4+2-3$

6 What does this equation become when c=5, x=3, d=-5

$$\frac{4c+4d}{3x}$$

a $\frac{4-5-4--5}{3-3}$

b $\frac{4+5+4+-5}{3+3}$

c $4-5+3-3$

d $\frac{4^5+4^{-5}}{3^3}$

e 4^5+3^3

f $\frac{4\cdot 5+4\cdot -5}{3\cdot 3}$

7 What does this equation become when z=-3, d=-4, y=-2

$$\frac{4z+2y}{4d}$$

a $\frac{4\cdot -3+2\cdot -2}{4\cdot -4}$

b $\frac{4^{-3}+2^{-2}}{4^{-4}}$

c $4--3+4--4$

d $\frac{4--3-2--2}{4--4}$

e $\frac{4+-3+2+-2}{4+-4}$

f $4^{-3}+4^{-4}$