Homework Questions p.35 #2-24 even

2, 10, 16, 18, 22

2. $-7 \div 21 = \frac{-7}{21} = \frac{-1}{3}$

10. $[27(-2)] \div (-3)^4$

$-54 \div 81$

$-\frac{54}{81} = -\frac{6}{9} = -\frac{2}{3}$

16. $\dfrac{(-12)\left(-\frac{3}{4} - \frac{2}{4}\right)}{\frac{5}{9} \div (-10)}$

$\dfrac{(-12)\left(-\frac{5}{4}\right)}{\frac{5}{9} \cdot \frac{1}{-10}_2} = \dfrac{\frac{60}{4}}{-\frac{1}{18}} = \dfrac{15}{-\frac{1}{18}}$

$15 \cdot \frac{-18}{1} = -270$

18. $\dfrac{\left[\frac{4}{9} - \left(-\frac{2}{9}\right)\right]\left[\frac{2}{3} - \left(-\frac{3}{3}\right)\right]^2}{\frac{5}{9} \div \left(-\frac{10}{3}\right)}$

$\dfrac{\left(\frac{6}{9}\right)\left(\frac{4}{3}\right)^2}{\frac{5}{3} \cdot \frac{-3}{10}_2} = \dfrac{\left(\frac{2}{3}\right)\left(\frac{16}{9}\right)}{-\frac{1}{6}} = \frac{32}{27} \div -\frac{1}{6}$

$\frac{32}{9} \cdot \frac{-6}{1}^2 = \frac{-64}{9}$

22. $\dfrac{2n^2 - 2^2}{-2} = \dfrac{2n^2 - 4}{-2}$

$-n^2 + 2$

$(-2)^2 = 4$

$-2^2 = -4$

24. $\dfrac{-15r^3 - 5r - 5}{-5}$

$\frac{-15r^3}{-5} + \frac{-5r}{-5} + \frac{-5}{-5}$

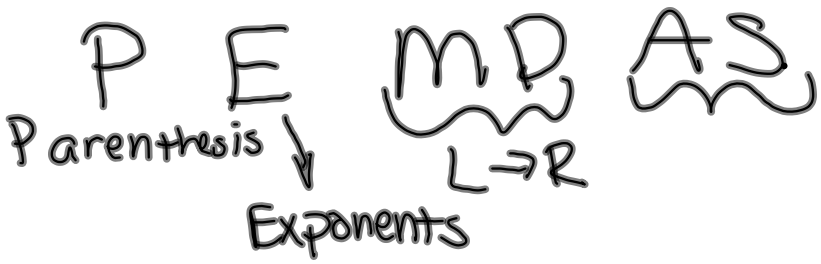
Homework Assessment

~~9/8/10~~ 9/2

6. $-\frac{1}{2} \div \left(\frac{1}{4}\right) \div (-4)$

Simplifying Expressions: putting it all together

Expressions are math statements that don't contain an equals sign. When simplifying expressions do what it tells you to do in the correct order.



You don't do the opposite operation. That is a method for solving equations not simplifying expressions

$3[9-2(5-1)]$

$3[9-2(4)]$

$3(9-8)$

$3(1)$

$\boxed{3}$

$3^3-4\div2+1$

$27-4\div2+1$

$27-2+1$

$\boxed{26}$

your turn!

$27\div3-3(2)$

$27\div3-6$

$9-6=3$

$(9-3)^2\div4-1$

$6^2\div4-1$

$36\div4-1$

$9-1$

$\boxed{8}$

$4[5-(3^2-4)]$

$4[5-(9-4)]$

$4[5-(5)]$

$4[0]$

$\boxed{0}$

Comparing values

simplify each side and then insert the correct symbol: <, > or =

2^2+2^2 ___ $(2^2)(2^2)$

$4+4$ $\quad$ $4 \cdot 4$

8 $\quad$ 16

$(18 \div 6)(3)$ ___ $18 \div (6 \div 3)$

$(3)(3)$ $\quad$ $18 \div 2$

9 $\quad$ 9

your turn!

$(3)(7)$ ___ $12+7$

21 $\quad$ 19

$27 \div 3$ ___ 3^2+2

9 $\quad$ 11

Homework:
p.10-11 #2-24 even, all parts!!