1-1 order of operations

expression
bunched operations to do

4+7 (expression)

11 (value)

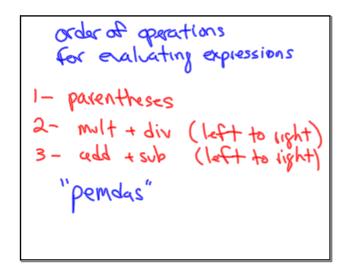
Jul 6-12:26 PM Jul 6-12:37 PM

4+7\*6+2 4+42+2 4+21 25

Jul 6-12:42 PM Jul 6-12:43 PM

#36) 7.5 - (18÷6) 4 + 2(7-4) = 2 35 - (3) 4 + 2(3) = 2 35 - 12 + 6 = 2 \* 35 - 12 + 3 23+3 = 2 (eft to // light // 26 35+(-12)+3

Jul 6-12:47 PM Jul 6-12:50 PM

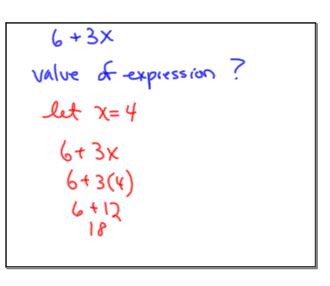


1-2 expressions with variables
expression variable: symbol that
(expresents some value)

Jul 6-12:56 PM

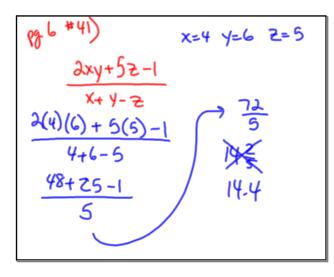
Jul 6-12:58 PM

6+3X Value of expression?



Jul 6-1:02 PM

Jul 6-1:03 PM



1.3 - commutative and associative properties

Jul 6-1:04 PM Jul 6-1:13 PM

commutative property

of addition.

$$a+b=b+a$$

$$7+3=10$$

$$3+7=10$$

$$6-2=4$$

$$6+(-2)$$

$$-2+6=4$$

Jul 6-1:16 PM Jul 6-1:2

```
associative paperty

of addition (a+b)+(= a+(b+c)
(7+6)+3 (7+(6+3)
13+3 (7+9
16)
16
```

Jul 6-1:23 PM Jul 6-1:24 PM

7 (x+3)

```
1.4 distributive property

(of multiplication over addition)

a(b+c) = ab+ac

7(3+2) | 7(3)+7(2)

7(5) | 2(3)+7(2)

3(5) | 3(3)+7(3)

3(5) | 3(3)+7(3)

3(5) | 3(3)+7(3)

3(5) | 3(5)
```

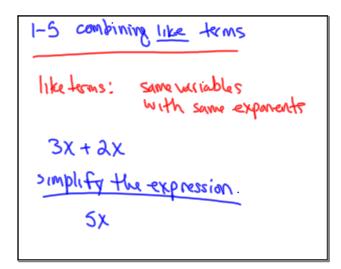
Jul 6-1:26 PM Jul 6-1:29 PM

associative paperty

& multiplication (a.b).(= a.(b.c)
(7.6).2 | 7.(6.2)
42.2 | 7.12
84 | 84

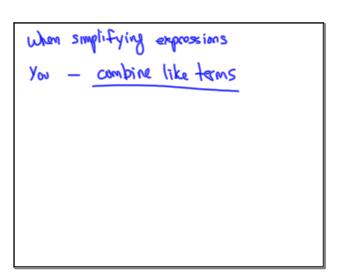
simplify using the distillative

Jul 6-1:31 PM



Jul 6-1:58 PM

Jul 6-2:03 PM



Jul 6-2:05 PM

```
\frac{3^{2} - 3 \cdot 3}{3^{2} - 3 \cdot 3} = 9

3^{5} - 3 \cdot 3 \cdot 3 \cdot 3 \cdot 3 = 243

7^{2} - 7 \cdot 7 = 49

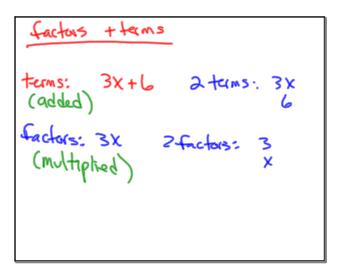
\frac{11}{3^{2} \cdot 2 + 6}

\frac{3^{2} \cdot 2 + 6}{18 + 6}

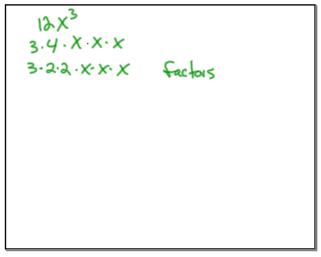
\frac{18 + 6}{18 + 6}

\frac{18 + 6}{18 + 6}
```

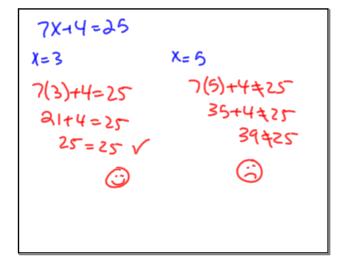
Jul 6-2:06 PM



Jul 6-2:09 PM



Jul 6-2:10 PM Jul 6-2:12 PM



Jul 6-2:16 PM Jul 6-1:52 PM

ch 1: p 24: 3,9,11,13,21,25,33,35,37 Ch 2: p 60: 7,9,11,15,17,21,23,27,29,33,35,37, 39,43,45

1-8 - solutions to open sentences

Solution: value of x that giver a true statement.

open sentence -> equation