Please honor my request that:

Once class begins...Don't work on yesterday's HW

When we go over it, you use a pen of a different color.

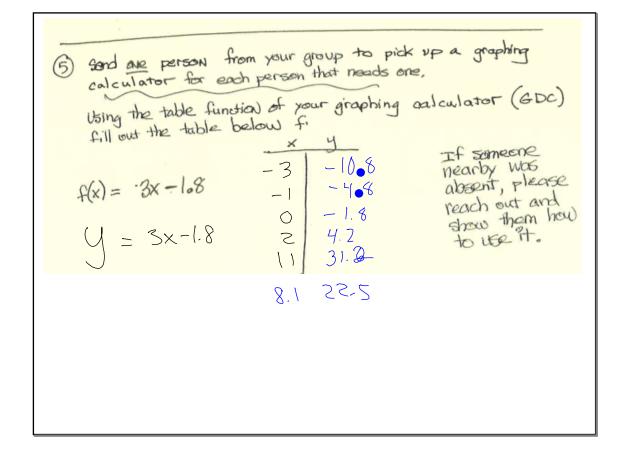
Let me Know about HW questions

Pick UP the Worm UP

WARM UP: 1 Factor
$$x^2-100 = (x+10)(x-10)$$

 $25-b^2 = (5+b)(5-b)$
2) $f(x) = 4x-2$ 3 $e(x) = x^2+1$
a) $f(100) = 4(100)-2 = \frac{396}{996}$ b) $e(3) = (3)^2+1 = 10$
b) $f(-2) = 4(-2)-2 = -10$ b) $e(-3) = (3)^2+1 = 10$
a) $f(n+3) = 4(n+3)-2$ c) $e(n+5) = (n+5)^2+1$
 $= 4n+12-2$
 $= 4n+10$
 $= 4n+10$

Notes from Day 5



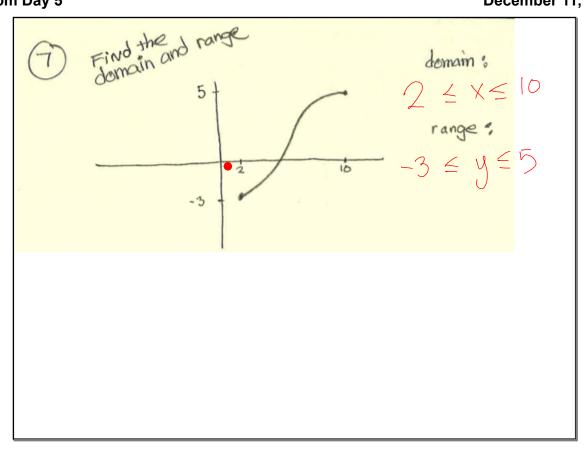
(a) Review of ExpoNents (at least one)

$$n \cdot n \cdot n = n^3$$
 $n^3 \cdot n = n^4$
 $n^2 y^2 \cdot ny^5 = n^2 \cdot n \cdot y^2 \cdot y^5 = n^3 y^7$
 $(2a)(3a^6) = 0$
 $(2a)(3a^6) = 0$

$$\frac{(3xy^3)(4xy)}{28n^3} = \frac{12 \times 2y}{1 + 10^3}$$

$$\frac{28n^3}{14n^3} = \frac{2}{1} = 2$$

$$\frac{(4n^3)(2n)}{12n^2} = \frac{4n^3 \cdot 2 \cdot n}{12n^2} = \frac{28n^3}{3 \cdot 2 \cdot n} = \frac{2n^2}{3 \cdot 2 \cdot n}$$



HWestions

$$\frac{2\alpha}{15x^2 + 12x + 10x + 8}$$

$$\frac{15x^2 + 12x + 10x + 8}{15x^2 + 22x + 8}$$

$$2c \qquad (x+1)(x^{2}-3x+5)$$

$$x^{3}-3x^{2}-3x$$

$$x^{3}-3x$$

$$x^{3}-3x^{2}-3x$$

$$x^{3}-3x$$

$$9 = 7 + 2x - x$$
 $3x - 9 = 7 + x$
 $7x - 9 = 7 + x$

Evaluate each function

a)
$$f(x) = 4x +$$

$$f(-2) = ?$$

b)
$$g(x) = 2x^2 - 5x$$

Evaluate each function

a)
$$f(x) = 4x + 5$$
 b) $g(x) = 2x^2 - 5x + 1$ c) $h(x) = \sqrt{x + 2}$

$$f(-2) = ?$$

$$4(-2) + 5$$

$$= 2(9) - 15 + 1$$

$$= 18 - 15 + 1$$

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c)
$$h(x) = \sqrt{x+2}$$

$$h(7) = \frac{17+2}{3}$$

$$= \frac{19}{3} = \frac{3}{3}$$

a)
$$k(x) = \frac{2x^2 + 1}{4}$$
 a) $f(n) = n^3 - 5n^2$
 $f(1) = 1^3 - 5(1)^2$
 $k(-2) = \frac{2(-2) + 1}{4}$ $= \frac{1 - 5}{4}$ $= \frac{1 - 5}{4}$ $= \frac{1 - 5}{4}$

Simply by removing the paranthasis using either the box, Foll, or Happy Factor (3x+2) (5x+4) b)
$$(n+3)(n-3)$$
 c) $(x+1)(x^2-3x+5)$

$$15x^2+12x+10x+8$$

$$15x^3+22x+8$$

$$15x^3+22x+8$$

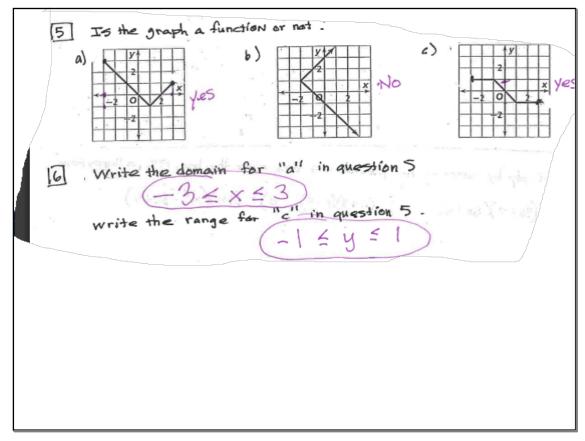
$$15x^3-3x+5$$

$$15x^3-3x+5$$

$$15x^3-3x+5$$

Now the reverse. Factor the expressions (look for common) a)
$$y^4 + 2y^3 + 5y^2$$
 b) $10m + 2$ c) $b^2 - 36$ D.o.s. $y^2(y^2 + 2y + 5)$ $2(5m + 1)$ $(b+6)(b-6)$ difference of squares

Figure the quadratic trinomial (USE box most had) $2y^2 + 3y - 20$ = (2y - 5)(y + 4) = 5 - 5y - 20 = 3y - 4y - 20y = 4y - 10y = 5y - 8y = 5y - 8y



Solve $3x-9 = 7+2x-x$ $3x-9 = 7+x$ $-9 = 7+x$ $2x-9 = 7+x$ $2x = 16$ $x = 16$ $x = 16$	Solve $3(n-2) + 3(4) = 3(n)$ $10 = 0$ A folse statement indicates that there are there are no solution to solution.



Solve for t
$$T = pr.t$$

$$T = p + rt$$

$$\int \frac{2}{x^2} = \int \frac{4}{x^2}$$

$$x = \pm 2$$

$$x = 2$$

$$x = -2$$

$$x = -2$$

Solve for
$$l$$

$$P = 2l + 2w$$

$$-2w$$

$$-2w$$

$$2l$$

$$2 = 2a + b$$

$$-2w$$

$$2 = 2l$$

$$2 = 2a + b$$

$$2 = 2a +$$



Get to know basic calculations with your Graphing Calculator (GDC)

$$\frac{7^{3}}{7^{3}}$$

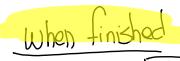
$$-(-3)^{3}+7(4)-3$$

$$\sqrt{4900}$$

$$\sqrt{3}\sqrt{125}$$



$$3x+2$$
 $-2x^2+3x+1$

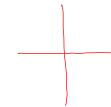


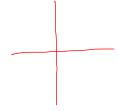
Use GDC to find domain and range $y = \sqrt{x} \qquad f(x) = \frac{1}{2}x - 5 \qquad y = -x^2$

$$y = \sqrt{x}$$

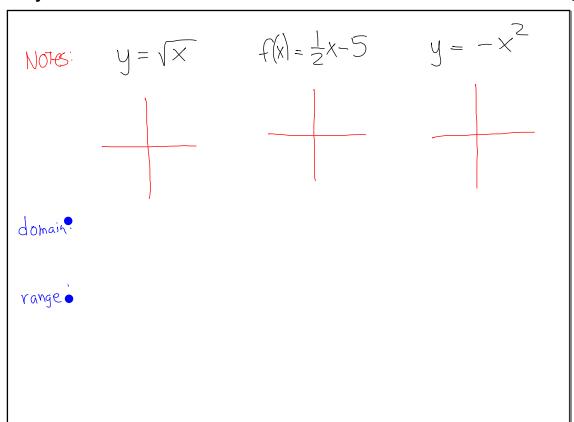
$$f(x) = \frac{1}{2}x - 5$$

$$y = -x^2$$





Goethe



"In the realm of ideas, everything depends on enthusiasm; in the real world, all rests on perseverance."

