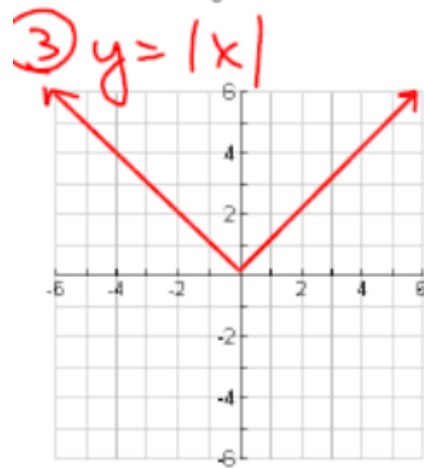
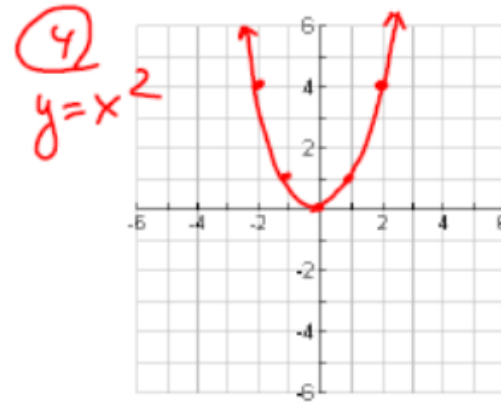
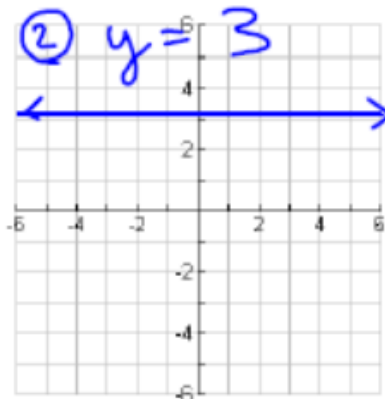
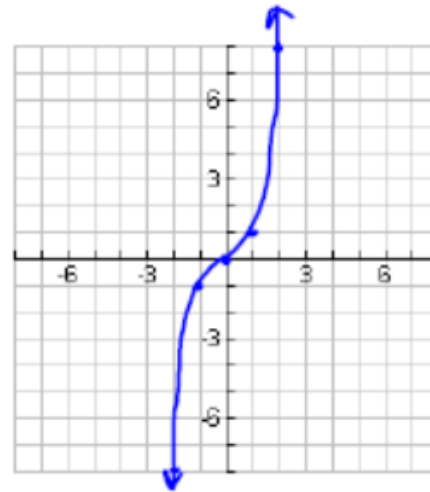


FRI 9-7-07

- 1-4
- ① $\sqrt{35}$ ② 2 ③ $7\sqrt{5}$ ④ $3\sqrt{7}-\sqrt{3}$
- ⑤ 14 ⑥ $\sqrt{22}$ ⑦ $2\sqrt{6}$ ⑧ z^2 ⑨ $|y^3|$
- ⑩ $a^4\sqrt{a}$ ⑪ $\frac{1}{3}$ ⑫ $\frac{\sqrt{3}}{3}$ ⑬ 1 ⑭ $\frac{7\sqrt{6}}{6}$
- ⑮ $\sqrt{7}$ ⑯ ^{UND.}
_{OR}
_{10i} ⑰ 5 ⑱ $2x^2$ ⑲ 13
- ⑳ $\sqrt{z^2-81}$ ㉑ $|4+3|$ ㉒ $4\sqrt{3}$ ㉓ $6\sqrt{2}$ ㉔ 6
- ㉕ $|y-5|$ ㉖ 5 ㉗ $\frac{3}{2}\sqrt{2}+2$ ㉘ $6+\frac{5}{3}\sqrt{6}$
- ㉙ $-x\sqrt{y+1}$ ㉚ 15 ㉛ $\sqrt{2}$ ㉜ x^2+6x+9
- ㉝ $x^3+9x^2+27x+27$
- ㉞ $x^4+12x^3+54x^2+108x+81$
- ㉟ y^6 ㊱ $\frac{1}{2^{12}}$ ㊲ $\frac{b^5}{2}$ ㊳ $2x^2y^8z^4\sqrt{2xz}$ ●
- ㊴ $\sqrt{69x^2+225y^2}$ ㊵ $\frac{c^3\sqrt{a}}{5b^2}$ ㊶ $\frac{6x^c y^3}{z}\sqrt{z}$
- ㊷ 1 ㊸ $-64x^6y^9$ ㊹ $9x^2-42xy^3+49y^4$ ㊺



⑤ $y = x^3$



1-5 GIVEN: $a^2 + b^2 = 1$

$a = \frac{3}{5}; b = ?$

$\left(\frac{3}{5}\right)^2 + b^2 = 1$

$\frac{9}{25} + b^2 = \frac{25}{25}$

$b^2 = \frac{16}{25}$

$\sqrt{b^2} = \pm \sqrt{\frac{16}{25}}$

$b = \pm \frac{4}{5}$ *2 SOLUTIONS!

WORKING WITH π

$$\text{Ex) } \frac{\pi}{3} + \frac{\pi}{4} = ?$$

$$= \frac{\pi \cdot 4}{3 \cdot 4} + \frac{\pi \cdot 3}{4 \cdot 3}$$

$$= \frac{4\pi}{12} + \frac{3\pi}{12}$$

$$= \frac{7\pi}{12}$$

$$\sin \frac{5\pi}{12} = \sin \left(\frac{3\pi}{12} + \frac{2\pi}{12} \right)$$

$$= \sin \left(\frac{\pi}{4} + \frac{\pi}{6} \right)$$

p.o.c.a.

PUT IN ASCENDING ORDER:

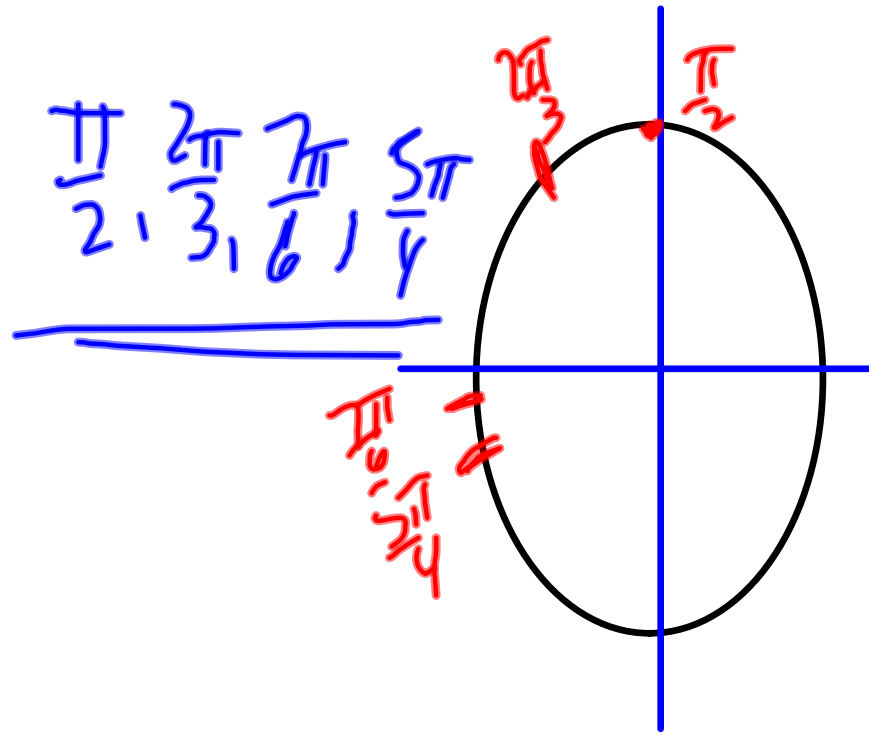
$$\frac{\pi}{2}, \frac{5\pi}{4}, \frac{2\pi}{3}, \frac{7\pi}{6}$$

$$\frac{\pi}{2} = \frac{6\pi}{12}$$

$$\frac{5\pi}{4} = \frac{15\pi}{12}$$

$$\frac{2\pi}{3} = \frac{8\pi}{12}$$

$$\frac{7\pi}{6} = \frac{14\pi}{12}$$



$$\frac{2}{3} \cdot \frac{3}{4} = \frac{2}{3} \cdot \frac{4}{3}$$

$$= \frac{8}{9}$$

$$\frac{8}{12} \cdot \frac{9}{12}$$

1-1? NONE

1-2? NONE

1-3? ⑧

$$(4x+y^4)^3 = (4x+y^4)(4x+y^4)(4x+y^4)$$

$$= (16x^2 + 8xy^4 + y^8)(4x+y^4)$$

$$= 64x^3 + 32x^2y^4 + 4xy^8 + 16x^2y^4 + 8xy^8 + y^8$$

1-4? (28) $2\sqrt{\frac{2}{3}} + \sqrt{6} + \sqrt{36}$

$$= \frac{2}{1} \cdot \frac{\sqrt{2}}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} + \sqrt{6} + 6$$

$$= \frac{2\sqrt{6}}{\sqrt{3}} + \sqrt{6} + 6$$

$$= \frac{2\sqrt{6}}{\sqrt{3}} + \frac{\sqrt{6}}{\sqrt{3}} + 6$$

$$= \frac{3\sqrt{6}}{\sqrt{3}} + 6$$

(9) $\sqrt{y^6}$

$$= |y^3|$$

$$\sqrt{36} = 6$$

$$-\sqrt{36} = -6$$

$$+\sqrt{36} = +6$$

$$\sqrt{z^8} = |z^4|$$

$$= z^4$$

$$\textcircled{21} \sqrt{n^2 + 6n + 9}$$

$$= \sqrt{(n+3)(n+3)}$$

$$= \sqrt{(n+3)^2}$$

$$= |n+3|$$

$$\textcircled{19} \sqrt{5^2 + 12^2}$$

$$= \sqrt{25 + 144}$$

$$= \sqrt{169}$$

$$= \underline{\underline{13}}$$

O.T.L.

BG

⑥ $y = \sqrt{x}$

⑦ $x = -2$

· CORRECT 1-1 — 1-4

· Do 1-5, 1-15 (ALL)

· TI-83 REVIEW &
SELF ASSESSMENTS

· BRING ?
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