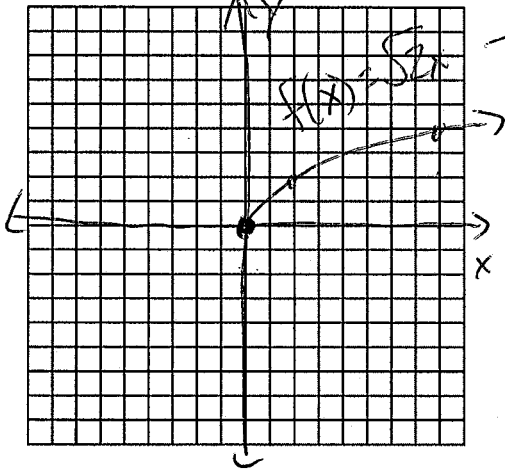


Name: _____
 Date: _____
 Class: _____

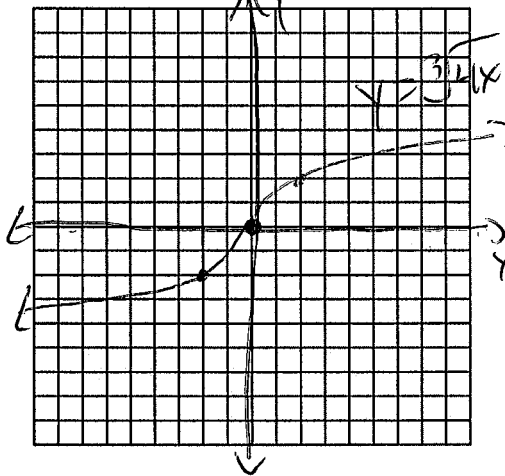
Algebra
 Unit 9
 HW 9-5

1) Graph $f(x) = \sqrt{2x}$



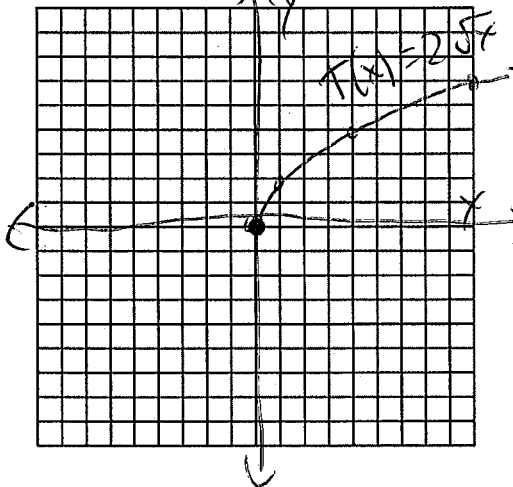
x	y
0	0
2	2
8	4

2) Graph $y = \sqrt[3]{4x}$



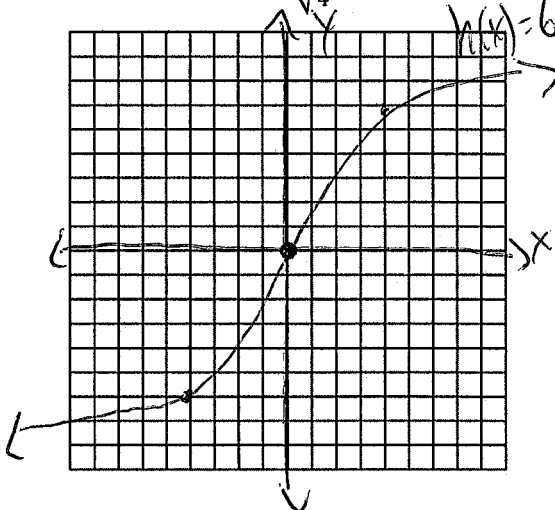
x	y
-2	-2
0	0
2	2

3) Graph $t(x) = 2\sqrt{x}$



x	y
0	0
1	2
4	4
9	6

4) Graph $h(x) = 6\sqrt[3]{\frac{1}{4}x}$



X	Y
-4	-6
0	0
4	6

5) Simplify: $5\sqrt{3}(2\sqrt{12} - 4\sqrt{5}) + 8 - \frac{8\sqrt{120}}{\sqrt{80}}$

$10\sqrt{36} - 20\sqrt{15} + 8 - \frac{8\sqrt{4}\sqrt{3}\sqrt{5}}{\sqrt{16}\sqrt{5}}$

$10(6) - 20\sqrt{15} + 8 - \frac{4\sqrt{15}}{1}$

$60 - 20\sqrt{15} + 8 - 4\sqrt{15}$

$68 - 20\sqrt{15} - 4\sqrt{15}$

6) Simplify: $\sqrt{12150x^2y} - \sqrt{3456x^2y}$

$\sqrt{25 \cdot 81 \cdot 56 \cdot x^2 \cdot y} - \sqrt{36 \cdot 16 \cdot 56 \cdot x^2 \cdot y}$

$5 \cdot 9 \cdot x \sqrt{56y} - 6 \cdot 4 \cdot x \sqrt{56y}$

$45x\sqrt{56y} - 24x\sqrt{56y} = \boxed{21x\sqrt{56y}}$

7) Simplify: $\frac{6\sqrt{1728}}{3\sqrt{14700}}$

$\frac{6\sqrt{36\sqrt{16}\sqrt{3}}}{3\sqrt{100\sqrt{49}\sqrt{3}}}$

$\frac{6 \cdot 6 \cdot 4}{3 \cdot 10 \cdot 7} = \frac{144}{210} = \frac{24}{35}$