	Math 9B Practice for final -2			
1	$16^{-\frac{3}{2}}$			
2	A right triangle has legs of lengths 2 and 4. Find the length of the hypotenuse.			
3	$\left(\frac{8x^{12}}{y^{24}}\right)^{\frac{1}{3}}$			
4	$\frac{3}{x-2} - 5 = \frac{7}{x-2}$			
5	3x - b = c			
6	Complete the square: $x^2 + 10x - 5 = 0$			
7	$x^2 = -21 + 10x$			
8	$x^2 + 4x - 3 = 0$			
9	-2x - 3 < 5			
10	$-3 \le 2x + 1 < 11$			
11	2x - 1 = 5			
12	Find the distance between $(-1, 3)$ and $(2, 5)$			
13	Find the slope of line : $2x - 3y = 1$			
14	Find the x-intercept of $3x + 5y = 2$			
15	2x + 1 < 5			
16	Find the equation of the line through $(2,3)$ and $(1, -4)$			
17	Find the equation of the vertical line through $(10,20)$			
18	Find the equation of the line perpendicular to $y = x + 1$ and through (2,3)			
19	Find the radius of the circle: $x^2 + y^2 - 8x + 2y + 1 = 0$			
20	Solve: $2x + 3y = -1$ and $x - 2y = 3$			

Answers:

1	1	2	$2\sqrt{5}$
1	64	2	275
3	$2x^4$	4	6
	$\frac{64}{2x^4}$		5
5	c + b	6	$(x+5)^2 = 30$
	3		
7	x = 7, x = 3	8	$\frac{-4 \pm \sqrt{28}}{2} = -2 \pm \sqrt{7}$
			2
9	x > -4	10	$-2 \le x < 5$
11	3, -2	12	$\sqrt{13}$
13	2	14	$(\frac{2}{2}, 0)$
	$\overline{3}$		$(\frac{1}{3}, 0)$
15	(-3,2)	16	y = 12x - 21
17	x = 10	18	y = -x + 5
19	4	20	x = 1, y = -1