Review for final – Practice A

1	Which is not rational: -5 , $\frac{3}{2}$, $\sqrt{5}$, -3.567 , 3.14
2	If you subtract -3 from -7 you get _____.
3	If $x = -12$ and $y = -14$, evaluate $|y - x|$.
4	Evaluate $3[2 - (4 - 7)] + 4 \cdot 5 + 2$
5	$5x - 2x(3x - 2) =$
6	Factor: $x^3 + 64$
7	Factor: $2x^2 - 3x - 14$
8	$\frac{(3x^5y^7)^2}{27x^4y^{13}} =$
9	$(5x + 3)^2 =$
10	$(x - 3)(2x^2 - 3x - 5)$

Answers:

1	$\sqrt{5}$
2	-4
3	2
4	37
5	$9x - 6x^2$
6	$(x + 4)(x^2 - 4x + 16)$
7	$(2x - 7)(x + 2)$
8	$\dfrac{x^6 y}{3}$
9	$25x^2 + 30x + 9$
10	$2x^3 - 9x^2 + 4x + 15$