Name: \_\_\_\_\_\_\_\_\_\_\_\_\_Date: HW Day 5

1. Express the product (2*x* – 1)(3*x* + 4) as a trinomial:
2. 5*x*2 + 9*x* – 4
3. 5*x* – 4
4. 6*x*2 – 5*x* – 4
5. 6*x*2 + 5*x* – 4
6. Which expression is rational?
7. π
8. 
9. 
10. 
11. Which of the following is an irrational number?
12. 5.5
13. -5
14. 
15. 
16. If 3*x* is one factor of 3*x*2 – 9*x*, what is the other factor?
17. 3*x*
18. *x*2– 6*x*
19. *x* – 3
20. *x* + 3
21. Which is a factor of *x*2 + 6*x* – 16?
22. (*x* + 4)
23. (*x* – 4)
24. (*x* + 2)
25. (*x* – 2)
26. When the expressions *x*2 – 9 and *x*2 – 5*x* + 6 are factored, a common factor is
27. *x* + 3
28. *x* – 3
29. *x* – 2
30. *x*2
31. One of the factors of 4*x*2 – 9 is
32. (*x* + 3)
33. (2*x* + 3)
34. (4*x* – 3)
35. (*x* – 3)
36. The expression is equivalent to
37. 50
38. 5
39. 10
40. Ms. Fox asked her class “Is the sum of 4.2 and  rational or irrational?” Patrick answered that the sum would be irrational. State whether Patrick is correct or incorrect. Justify your reasoning.
41. Factor completely: 3*x*2 + 15*x* – 42 and State the methods used to factor.