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. https://cl.castlelearning.com/Review/Courses/integratedalgebra/sqrt-1-2.gif?v=20031119050938
9. https://cl.castlelearning.com/Review/Courses/integratedalgebra/sqrt-3.gif?v=20010802020050
10. https://cl.castlelearning.com/Review/Courses/integratedalgebra/sqrt-1-4.gif?v=20031119051026
11. Which of the following is an irrational number?
12. 5.5
13. -5
14. square root of 5
15. 1 fifth
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 square root of 500is equivalent to
37. 50square root of 10
38. 5square root of 10
39. 10square root of 5
40. Ms. Fox asked her class “Is the sum of 4.2 and the square root of 2 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.