Name:_____ Date:_____

PC: Long Division of Polynomials Ms. Loughran

Do Now:

1. Divide 546 by 4 using long division.

Divide using long division.

1. $(m^2 - 7m - 11) \div (m - 8)$
2. $(n^2 - n - 29) \div (n - 6)$
3. $(n^2 + 10n + 18) \div (n + 5)$
4. $(k^2 - 7k + 10) \div (k - 1)$
5. $(n^2 - 3n - 21) \div (n - 7)$
6. $(a^2 - 28) \div (a - 5)$
7. $(r^2 + 14r + 38) \div (r + 8)$
8. $(x^2 + 5x + 3) \div (x + 6)$
9. $(2x^2 - 17x - 38) \div (2x + 3)$
10. $(42x^2 - 33) \div (7x + 7)$
11. $(x^2 - 74) \div (x - 8)$
12. $(2p^2 + 7p - 39) \div (2p - 7)$
13. $(n^3 + 7n^2 + 14n + 3) \div (n + 2)$
14. $(p^3 - 10p^2 + 20p + 26) \div (p - 5)$
15. $(v^3 - 2v^2 - 14v - 5) \div (v + 3)$
16. $(40x - 13x^2 + x^3 + 18) \div (x - 7)$
17. $(-18 - 4k^2 - 30k + k^3) \div (3 + k)$
18. $(-5k^2 + k^3 + 8k + 4) \div (-1 + k)$
19. $(-7 + x^3 - 32x + 5x^2) \div (x - 4)$
20. $(10k^2 - 35k + 50k^3 - 7) \div (-4 + 5k)$