

Name _____



Date _____

Polynomials

Use FOIL.

1. $(10x + 4)(11x + 6)$	2. $(10x + 7)(5x + 3)$
3. $(6x + 2)(9x + 9)$	4. $(6x + 5)(9x + 8)$
5. $(-10x + 12)(3x - 12)$	6. $(-10x + 10)(-7x + 5)$
7. $(-10x + 4)(-12x - 9)$	8. $(-6x - 8)(-5x - 8)$
9. $(12x - 9)(12x + 8)$	10. $(-7x + 12)(-12x - 11)$
11. $(-20x + 19)(-7x + 11)$	12. $(-11x + 19)(-17x - 12)$
13. $(9x - 9)(7x - 12)$	14. $(-8x - 8)(-10x - 9)$
15. $(-12x + 19)(12x - 10)$	16. $(14x - 14)(20x - 13)$
17. $(9x + 10)(-18x - 20)$	18. $(19x + 20)(-18x + 17)$
19. $(17x + 20)(-20x + 10)$	20. $(18x - 18)(14x - 8)$

Answer Key

1 $110x^2 + 104x + 24$

2 $50x^2 + 65x + 21$

3 $54x^2 + 72x + 18$

4 $54x^2 + 93x + 40$

5 $-30x^2 + 156x - 144$

6 $70x^2 - 120x + 50$

7 $120x^2 + 42x - 36$

8 $30x^2 + 88x + 64$

9 $144x^2 - 12x - 72$

10 $84x^2 - 67x - 132$

11 $140x^2 - 353x + 209$

12 $187x^2 - 191x - 228$

13 $63x^2 - 171x + 108$

14 $80x^2 + 152x + 72$

15 $-144x^2 + 348x - 190$

16 $280x^2 - 462x + 182$

17 $-162x^2 - 360x - 200$

18 $-342x^2 - 37x + 340$

19 $-340x^2 - 230x + 200$

20 $252x^2 - 396x + 144$