



Assignment

Date _____ Period _____

Find each product.

$$1) (6 + 6x)(6 - 6x)$$

$$36 - 36x^2$$

$$3) (6v + 2)(6v - 2)$$

$$36v^2 - 4$$

$$5) (8m + 1)(8m - 1)$$

$$64m^2 - 1$$

$$7) (7n + 4)(7n - 4)$$

$$49n^2 - 16$$

$$9) (2a - 2)(2a + 2)$$

$$4a^2 - 4$$

$$11) (8r + 1)^2$$

$$64r^2 + 16r + 1$$

$$13) (3x - 7)(3x + 7)$$

$$9x^2 - 49$$

$$15) (2m + 5n)(8m + 6n)$$

$$16m^2 + 52mn + 30n^2$$

$$17) (7a - 2b)(5a - 8b)$$

$$35a^2 - 66ab + 16b^2$$

$$19) (2a - 7b)(6a - 3b)$$

$$12a^2 - 48ab + 21b^2$$

$$21) (6x - 7y)(8x - 6y)$$

$$48x^2 - 92xy + 42y^2$$

$$23) (x - 7y)(3x + 6y)$$

$$3x^2 - 15xy - 42y^2$$

$$25) (7u + v)(2u - 5v)$$

$$14u^2 - 33uv - 5v^2$$

$$2) (2m - 5)(2m + 5)$$

$$4m^2 - 25$$

$$4) (7x + 1)(7x - 1)$$

$$49x^2 - 1$$

$$6) (5 - 8m)(5 + 8m)$$

$$25 - 64m^2$$

$$8) (8m - 6)(8m + 6)$$

$$64m^2 - 36$$

$$10) (7p - 7)(7p + 7)$$

$$49p^2 - 49$$

$$12) (x - 4)(x + 4)$$

$$x^2 - 16$$

$$14) (3x + 6y)(6x - 5y)$$

$$18x^2 + 21xy - 30y^2$$

$$16) (6m - 8n)(m - 2n)$$

$$6m^2 - 20mn + 16n^2$$

$$18) (7u + 4v)(4u + 5v)$$

$$28u^2 + 51uv + 20v^2$$

$$20) (2x - 7y)(4x + y)$$

$$8x^2 - 26xy - 7y^2$$

$$22) (2m - 2n)(6m + n)$$

$$12m^2 - 10mn - 2n^2$$

$$24) (5m + 5n)(2m + 3n)$$

$$10m^2 + 25mn + 15n^2$$

$$26) (7u - 4v)(5u - 4v)$$

$$35u^2 - 48uv + 16v^2$$

$$\checkmark (3t + 5)(3t - 5)$$

$$\checkmark 27) (3a - 2b)(5a - 6b) \textcircled{D}$$
$$15a^2 - 28ab + 12b^2$$

$$\checkmark 29) (3x - 2y)(6x + 5y)$$
$$18x^2 + 3xy - 10y^2$$

$$\checkmark 31) (2x + 4y)(2x + 3y)$$
$$4x^2 + 14xy + 12y^2$$

$$33) (7u + 6v)(6u - 7v)$$
$$42u^2 - 13uv - 42v^2$$

$$\checkmark 35) (5x - 6y)(7x + y)$$
$$35x^2 - 37xy - 6y^2$$

$$37) (5m + 3n)(4m - 6n)$$
$$20m^2 - 18mn - 18n^2$$

$$39) (x + 5y)(-5x - 4y)$$
$$-5x^2 - 29xy - 20y^2$$

$$41) (8x - y)(-x + 7y)$$
$$-8x^2 + 57xy - 7y^2$$

$$43) (-6x - 2y)(-7x - y)$$
$$42x^2 + 20xy + 2y^2$$

$$\checkmark 45) (7x - 5y)(5x - 3y)$$
$$35x^2 - 46xy + 15y^2$$

$$47) (5a - 2b)(-8a - 5b)$$
$$-40a^2 - 9ab + 10b^2$$

$$49) (5x - 4y)(-x + y)$$
$$-5x^2 + 9xy - 4y^2$$

$$\textcircled{28) (4x + 7y)(3x + 8y)}$$
$$12x^2 + 53xy + 56y^2$$

$$\textcircled{30) (8x - 2y)(x + 2y)}$$
$$8x^2 + 14xy - 4y^2$$

$$\checkmark 32) (5x + 3y)(3x - 3y)$$
$$15x^2 - 6xy - 9y^2$$

$$34) (6x - 8y)(5x - 4y)$$
$$30x^2 - 64xy + 32y^2$$

$$36) (4u - 2v)(2u + 3v)$$
$$8u^2 + 8uv - 6v^2$$

$$38) (x + 3y)(2x + 2y)$$
$$2x^2 + 8xy + 6y^2$$

$$\checkmark 40) (5x - y)(-3x + 6y)$$
$$-15x^2 + 33xy - 6y^2$$

$$42) (6x + 4y)(8x + 8y)$$
$$48x^2 + 80xy + 32y^2$$

$$44) (3u + 2v)(-3u + 6v)$$
$$-9u^2 + 12uv + 12v^2$$

$$46) (-7m - 7n)(7m - 3n)$$
$$-49m^2 - 28mn + 21n^2$$

$$48) (-4x + y)(-3x - y)$$
$$12x^2 + xy - y^2$$

$$\checkmark 50) (-6x - 8y)(-3x + y)$$
$$18x^2 + 18xy - 8y^2$$