

Old Poly

The student will factor completely first- and second-degree binomials and trinomials in one or two variables.

SOL: A.2c

Materials: Old Poly cards

Groups: 3 or 4 in each group

Game:

The dealer shuffles the cards and deals them all out. Each player matches the polynomial with its factors for those pairs in his hand. These pairs are placed face-up on the table. Play begins by each player passing 3 of the remaining cards to the player on his right. If this action results in additional pairs being formed, each player adds these to his spread. To begin the draw, the player to the left of the dealer draws a card from the hand of the player to his left. If the drawn card completes a pair, he plays the pair face-up with his others. Otherwise, he keeps it and the next player to his left draws from the player on his left. Play continues until all pairs are formed, leaving one player with the OLD POLY card. This player is the loser. As a player's hand is depleted, he drops out of the game.

$$25n^2 + 10n + 1$$



$$25n^2 + 10n + 1$$

$$25x^2 - 16y^2$$



$$25x^2 - 16y^2$$

$$p^2 - 64$$



$$p^2 - 64$$

$$(p + 8)(p - 8)$$



$$(p + 8)(p - 8)$$

$$25n^2 + 30n + 9$$



$$25n^2 + 30n + 9$$

$$(5x + 4y)(5x - 4y)$$



$$(5x + 4y)(5x - 4y)$$

$$(2p + 5)(2p - 5)$$



$$(2p + 5)(2p - 5)$$

$$a^2 - 4a + 4$$



$$a^2 - 4a + 4$$

$$(5n + 1)^2$$



$$(5n + 1)^2$$

$$(c + 2)(c - 2)$$



$$(c + 2)(c - 2)$$

$$(a - 3)^2$$



$$(a - 3)^2$$

$$x^2 - 1$$



$$x^2 - 1$$

$$c^2 - 4$$



$$c^2 - 4$$

$$a^2 - 6a + 9$$



$$a^2 - 6a + 9$$

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



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

$$4p^2 - 25$$



$$4p^2 - 25$$

$$(x + 6y)^2$$



$$(x + 6y)^2$$

$$x^2 + 12xy + 36y^2$$



$$x^2 + 12xy + 36y^2$$

$$b^2 - 16$$



$$b^2 - 16$$

$$p^2 - 25$$



$$p^2 - 25$$

$$(x - 1)^2$$



$$(x - 1)^2$$

$$x^2 - 2x + 1$$



$$x^2 - 2x + 1$$

$$(b + 4)(b - 4)$$



$$(b + 4)(b - 4)$$

$$(b + 4)(b - 4)$$



$$(b + 4)(b - 4)$$

$$(2a + 1)^2$$



$$(2a + 1)^2$$

$$4a^2 + 4a + 1$$



$$4a^2 + 4a + 1$$

$$(3x - y)^2$$



$$(3x - y)^2$$

$$9p^2 - 25$$



$$9p^2 - 25$$

$$(4a - 1)^2$$



$$(4a - 1)^2$$

$$(3p + 5)(3p - 5)$$



$$(3p + 5)(3p - 5)$$

$$16a^2 - 8a + 1$$



$$16a^2 - 8a + 1$$

$$(2p + 3)(2p - 3)$$



$$(2p + 3)(2p - 3)$$

$$4p^2 - 9$$



$$4p^2 - 9$$

$$(5n + 3)^2$$



$$(5n + 3)^2$$

$$x^2 + 4x + 4$$



$$x^2 + 4x + 4$$

$$b^2 - c^2$$



$$b^2 - c^2$$

$$(x + 2)^2$$



$$(x + 2)^2$$

$$(b + c)(b - c)$$



$$(b + c)(b - c)$$

$$(p + 5)(p - 5)$$



$$(p + 5)(p - 5)$$

OLD POLY



OLD POLY

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



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

$$a^2 - 10a + 25$$



$$a^2 - 10a + 25$$

$$p^2 - 49$$



$$p^2 - 49$$

$$(a - 2)^2$$



$$(a - 2)^2$$

$$(a - 5)^2$$



$$(a - 5)^2$$

