

NAME: Sawis

Number Correct: _____

Factoring 'Speed Quiz' #2

Write each of the following expressions in factored form.

$$p^2 - 49$$

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

$$a^2 + 10a + 24$$

$$= (a+6)(a+4)$$

$$75 - 5x^2$$

$$= 5(x^2 - 15)$$

$$= 5(x - \sqrt{15})(x + \sqrt{15})$$

$$x^2 - 9x + 18$$

$$(x-6)(x-3)$$

$$x^2 - 9$$

$$= (x-3)(x+3)$$

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

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

$$16x^6 + 25$$

$$\text{d n f.}$$

$$a^2 - 64b^4$$

$$= (a - 8b^2)(a + 8b^2)$$

$$1x^2 - 5x - 14$$

$$= (x-7)(x+2)$$

$$13x^2y^3z^2 - 7x^2y^5z$$

$$= x^2y^3z^2(13z - 7y^2)$$

$$4x^2 - 48 = 4(x^2 - 12) = 4(x-4)(x+4)$$

$$= 4(x^2 - 12)$$

$$m^2 + 12m + 30$$

$$(m+?)(m+?) \text{ d.n.f.}$$

$$w^2 - 2w - 48$$

$$= (x-8)(x+6)$$

$$4x^2 - 48x$$

$$= 4x(x-12)$$

$$2s^3t^2 - 8s^2t^3 - st$$

$$= st(2s^2t - 8st^2 - 1)$$

$$n^2 + 7n + 10$$

$$= (n+5)(n+2)$$