|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | (3x-1)(x+1) |  |  | $$x^{2}-6x-16$$ |  |  | $$(x+3)^{2}$$ |  |  | (2x-5)(2x+1) |  |
| $$x^{2}+3x-10$$ | (x+2)(x+5)$$x^{2}-x-12$$ | (3x-2)(3x+2) | (2x+5)(2x-5) |  | $x^{2}+4x+3$$$4x^{2}-25$$ | (x-2)(x-9) |  | $x^{2}+3x-18$$$4x^{2}+20x+25$$ | $$25x^{2}+20x+4$$ |  | (x+3)(x+1) |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  | (x-4)(x-6) |  |  | (4x+5)(x-1) |  |  | $$(5x-4)^{2}$$ |  |  | (4x-1)(4x+1) |  |
| (x-3)(x+6)$$4x^{2}-25$$ |  | $$x^{2}+6x-16$$ | $$x^{2}-8x+16$$ |  | (x-4)(x-3) | $$x^{2}+6x+9$$ |  | (x-2)(x+2) | (x+3)(x-5) |  | $$4x^{2}+x-5$$ |
|  | $$x^{2}-9$$ |  |  | $$6x^{2}-x-2$$ |  |  | $$x^{2}-4x-12$$ |  |  | $$9x^{2}-4$$ |  |
|  | (x+6)(6x+5) |  |  | $$x^{2}+16$$ |  |  | $$7x^{2}-19x+10$$ |  |  | $$25x^{2}-16$$ |  |
| $$(3x+2)^{2}$$ |  | $$x^{2}+7x-18$$ | $$(x-4)^{2}$$ |  | $$x^{2}-15$$ | $$x^{2}-2x-15$$ |  | (x+2)(x-8) | $$6x^{2}+13x+6$$ |  | (x+4)(x-4) |
|  | $$x^{2}-7x+12$$ |  |  | (x+3)(x-4) |  |  | (x+3)(x-3) |  |  | (6x+1)(x-2) |  |
|  | $$x^{2}-10x+24$$ |  |  | (5x-4)(5x+4) |  |  | $$6x^{2}+41x+30$$ |  |  | $$3x^{2}+2x-1$$ |  |
| $$x^{2}-16$$ |  | (x+2)(x-6) | (x-2)(x+8)(x+1)(x-1) |  | $$9x^{2}+12x+4$$ | $$x^{2}-14x+24$$ |  | (3x+2)(2x+3) | (7x-5)(x-2) |  | $$x^{2}+9$$ |
|  | $$(4x-1)^{2}$$ |  |  | $$16x^{2}-1$$ |  |  | (x+1)(x-1) |  |  | $$(2x+5)^{2}$$ |  |

**Factoring Quadratic Functions**

Cut the squares apart.

Match equivalent expressions.

You should get a new 4x4 square.