

To pass this test you can have at most one error.

1. Factor the greatest common factor in the polynomial  $2ab^3 + 8xab^2 - 10a^2b^4 + 2ab^2$ .
2. Factor by grouping:  $4x + 8y - 3wx - 6wy$ .
3. Factor:  $3y^2 - y + 9y - 3$ .
4. Factor:  $x^2 - 9x + 18$ .
5. Factor:  $x^2 + 19xy + 48y^2$ .
6. Factor:  $12x^2 + x - 6$ .
7. Factor:  $3x^2 - 13x - 10$ .
8. Factor:  $25x^2 + 30x + 9$ .

### Solutions

1.  $2ab^2(b + 4x - 5ab^2 + 1)$
2.  $(x + 2y)(4 - 3w)$
3.  $(y + 3)(3y - 1)$
4.  $(x - 6)(x - 3)$
5.  $(x + 3y)(x + 16y)$
6.  $(4x + 3)(3x - 2)$
7.  $(3x + 2)(x - 5)$
8.  $(5x + 3)^2$