



ACT COMPASS Preparation Worksheet

Algebra: Factoring Polynomials

- $x^3 + x^2 + x$
- $15a + 12b + 6c$
- $8x^2 - 18y^2$
- $x^2y + 2y$
- $z^3 + 4z^2$
- $4x^2 - 4x$
- $15x^2 - 50x - 10$
- $121a - 11b$
- $64c^3 - 56c^2 + 88c$
- $10 - 10n + 10n^2$
- $18k + 36k^2 + 9k^3$
- $33q^3 + 33q^2r + 33qr^2$
- $18kxy - 4xy + 2k^2xy$
- $x^2 + 2x + 1$
- $x^2 + 2xy + y^2$
- $3x^2 + 7xy + 4y^2$
- $x^2 - 4x - 45$
- $x^2 + 9x - 22$
- $x^2 - 5x + 6$
- $x^2 - 2x + 1$
- $x^2 - 10x + 25$
- $x^2 - 3xy + 2y^2$
- $9x^2 + 46x + 5$
- $4x^2 + 28x + 49$
- $42x^2 + 43x - 7$
- $6x^2 - 13xy + 6y^2$
- $x^4 - 2x^2 - 3$
- $x^4 - x^2y^2 - 2y^4$
- $4x^2 - 16$
- $16 - k^2$
- $49 - 64x^2$
- $25z^4 - 1$
- $x^2 - 1$
- $100y^6 - 100$
- $81x^2 - 25$
- $-100 + 4z^2$
- $x^2y^2 - 4$
- $x^3 - x$
- $x^3 + 5x^2 + 6x$
- $4y^2 - 8y - 60$



41. $3q^2 - 12q + 12$

42. $3m^3 + 33m^2 + 90m$

43. $4x^2 + 8xy + 4y^2$

44. $4kx^2 - 4ky^2$

45. $m^4 - 1$

46. $p^4 - 2p^2 + 1$

47. $abc^2 + 6abc + 5ab$

48. $24x^2 + 68x + 48$

49. $4x^2y + 12xy^2 + 9y^3$

50. $3mx^2 - 5mx - 28m$