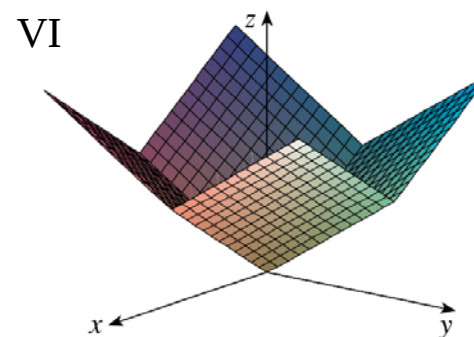
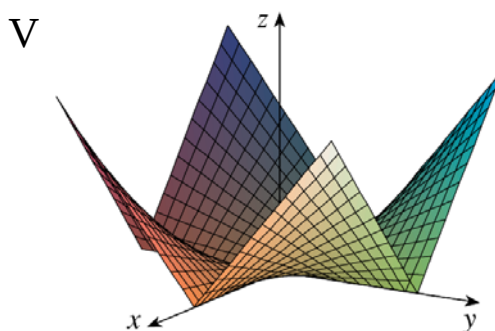
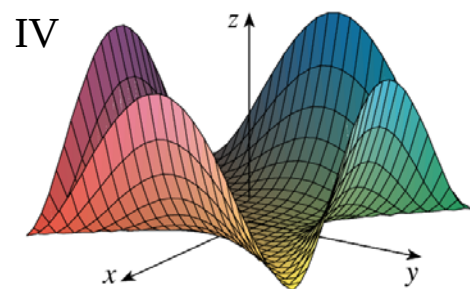
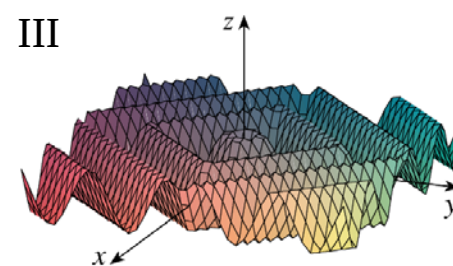
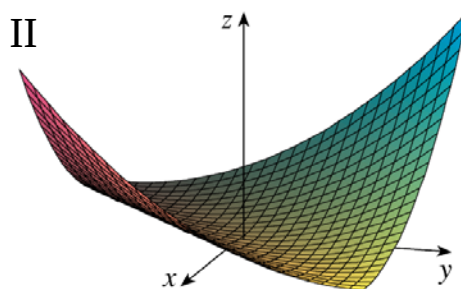
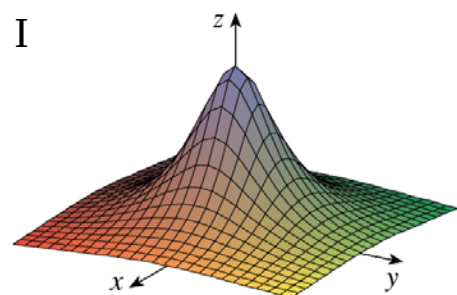


Section 14.1 • Exercise 30



(a) $f(x, y) = |x| + |y|$

(c) $f(x, y) = \frac{1}{1 + x^2 + y^2}$

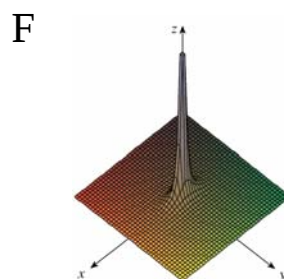
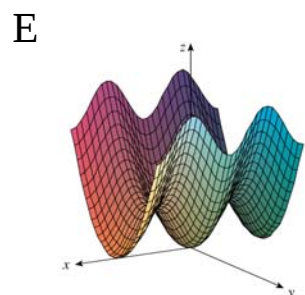
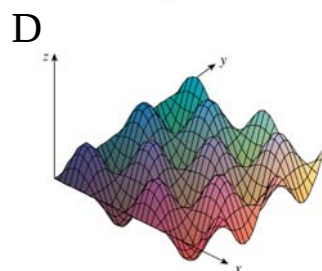
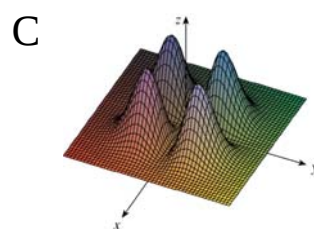
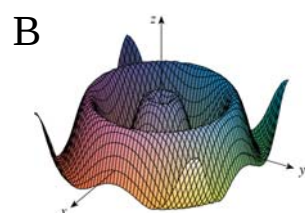
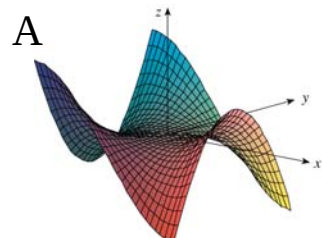
(e) $f(x, y) = (x - y)^2$

(b) $f(x, y) = |xy|$

(d) $f(x, y) = (x^2 - y^2)^2$

(f) $f(x, y) = \sin(|x| + |y|)$

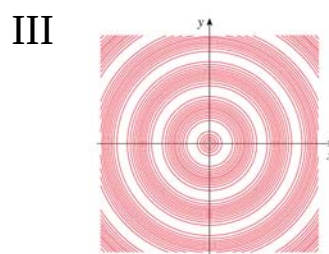
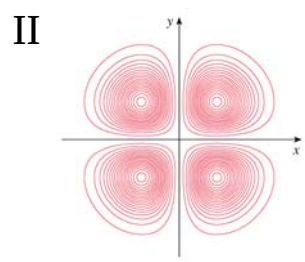
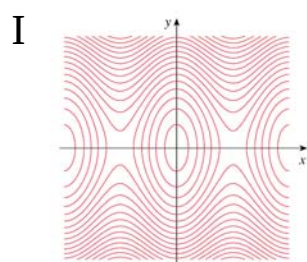
Section 14.1 • Exercises 53-58



53. $z = \sin \sqrt{x^2 + y^2}$

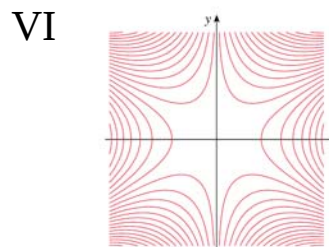
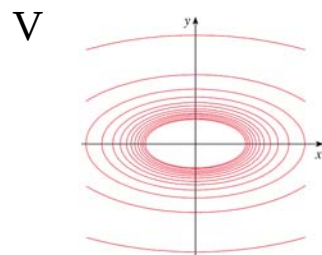
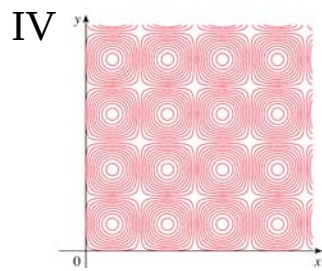
54. $z = x^2 y^2 e^{-x^2 - y^2}$

55. $z = \frac{1}{x^2 + 4y^2}$



56. $z = x^3 - 3xy^2$

57. $z = \sin x \sin y$



58. $z = \sin^2 x + \frac{1}{4} y^2$