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1. (a) (IV) (b) (III) (c) (I) (d) (II)

8. Possible answer: $\vec{F}(x, y) = x\vec{i}$

9. Possible answer: $\vec{F}(x, y) = -y\vec{i}$

10. Possible answer: $\vec{F}(x, y) = x\vec{i} + y\vec{j}$

11. Possible answer: $\vec{F}(x, y) = -x\vec{i} - y\vec{j}$

12. Possible answer: $\vec{F}(x, y) = (x\vec{i} + y\vec{j})/\sqrt{x^2 + y^2}$

13. Possible answer: $\vec{F}(x, y) = -y\vec{i} + x\vec{j}$