1. $\mathrm{b}, \mathrm{g}$
2. $\mathrm{c}, \mathrm{f}$
3. If you insist on interpreting the dot as a dot product, then the answer is a. If you realize you can interpret the dot as scalar multiplication, then the answer is c , f .
4. $\mathrm{b}, \mathrm{i}$
5. a
6. e, j, m, q
7. e, k, q
8. $\mathrm{j}, \mathrm{m}$
9. $\mathrm{j}, \mathrm{m}$
10. 1
11. n
12. a
13. e, k, q
14. a
15. e, v
16. d, r
17. d, o. The graph is a parbaola in the $z-x$ plane. However, you can instead interpret this as a surface in three-space which doesn't happen to depend on $y$. In that interpretation, the graph is a parabolic cylinder running along the $y$-axis, and choice r is an additional option.
18. t , a circle in the $x-y$ plane. However, you can instead interpret this as as surface in three-space which doesn't happen to depend on $z$. In that interpretation, the graph is a circular cylinder running along the $z$-axis, and choice $s$ is an additional option.
19. d, p
20. s
