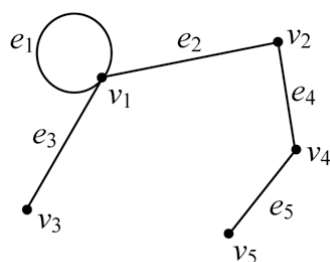


Answers vary. Sample:



[1] _____

[2] 12 _____

[3] 15 _____

[4] v_2, v_4, v_5, v_6 _____

[5] e_8 and e_{10} _____

[6] Answers vary. Sample: Remove edges e_5 and e_8 . _____

[7] 4 _____

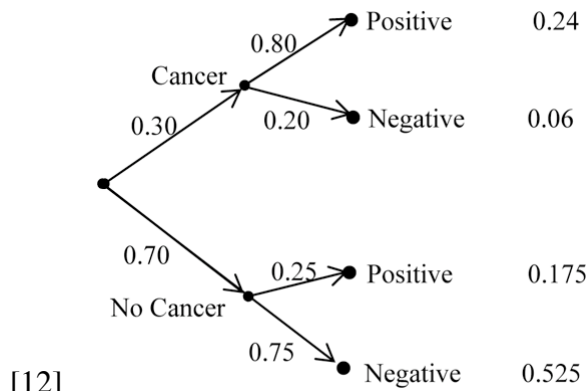
[8] 20 _____

[9] yes _____

No. Explanations vary. Sample: This graph would have 3 vertices of odd degree, giving it an odd total degree. A graph cannot have an odd number of vertices of odd degree.

[10] _____

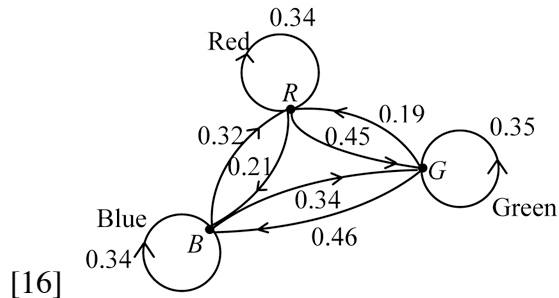
[11] No; explanations vary. Sample: A graph must have an even number of odd vertices. _____



[13] $\frac{0.0052}{0.5707} \approx 0.91\%$

[14] No, a graph representing the situation would have 45 vertices of degree 5, which is an odd number of vertices of odd degree.

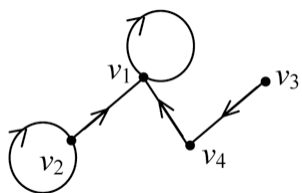
[15] Yes. Explanations vary. Sample: The graph is connected, and every vertex has even degree.



[17]

	P	R	T
P	0.42	0.24	0.34
R	0.42	0.33	0.25
T	0.32	0.34	0.34

[18] $\approx 29.2\%$



[19]

[20] 1
