27.01,2025 1.	
Name:	
Index number: Computer Graphics – Exam	
Exam consist of 15 mulitchoice tasks, each chaving three questions with answers Yes (T) or No (F). For each correct answer you get I point and for three correct answers within one task there is I bonus point. Thus, for each task it is possible to get 0, 1, 2, or 4 points. To pass the exam it is necessary to get at least 30 points (half of all points). Time: 60 minutes. Good luck!	
Task 1. The following is true	
M In RBG model (0,1,0) defines a green color	
In ROB model (1, 1, 1) is a black color In RGB model (1, 0, 1) is a green color.	
Task 2. The following is true	
M In HSV model, H stands for hue	
In CMY model (1,0,0) represents red colr	
RGB model is an additive color model	
Task 3. The following is true	
Depth sort is an algorithm with image precision	
Z-buffer algorithm finds for each pixel the color of the closest object	
In image precision algorithms we compare objects with themselves	
Task 4. Consider the homogeneous coordinates ((0,2,-6,2) of some 3D point P. Then	
P = (0, 1, -3)	
P = (0, 2, -6)	
homogeneous coordinates of P are also given by (0,3,-9,3	
Task 5. In homogeneous coordinates:	
translation is a linear transformation	
scaling is a linear transformation	
perspective projection is a linear transformation	
Task 6. Consider the following lines in the program:	
x = cos(a) *x - sin(a) * y; y = sin(a) * x + cos(a) * y;	
where (x, y) is a position and a some fixed angle. Then	
equations define the move along a circle	
equations define the move along a li-	
if $a = 0$, then the position does not change	
Task 7. The following is true	

